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OM protein - protein search, using sw model

Run on: April 19, 2004, 15:38:36 ; Search time 23 Seconds
(without alignments)
130.187 Million cell updates/sec

Title: US-10-079-754A-10
Perfect score: 58
Sequence: 1 MKIFIVFIMALILAMIRAD.....QQYQYQRYPLNYPAYPFP 58

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Issued Patents AA:*
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6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6	10.3	12	3	US-08-602-999A-268
2	6	10.3	12	4	US-09-500-124-268
3	6	10.3	95	4	US-09-621-976-7261
4	6	10.3	103	4	US-09-460-384-35
5	6	10.3	107	4	US-09-198-452A-1200
6	6	10.3	134	4	US-09-634-238-376
7	6	10.3	146	4	US-09-489-039A-7386
8	6	10.3	164	4	US-09-134-000C-3551
9	6	10.3	201	4	US-09-543-681A-4214
10	6	10.3	216	4	US-09-543-681A-5885
11	6	10.3	241	4	US-09-489-039A-8060
12	6	10.3	263	4	US-09-134-001C-3062
13	6	10.3	298	4	US-09-543-681A-5642
14	6	10.3	310	3	US-08-605-284B-16
15	6	10.3	380	3	US-09-097-889-25
16	6	10.3	380	4	US-09-098-078-25
17	6	10.3	386	4	US-09-489-039A-8756
18	6	10.3	450	4	US-09-369-247-97
19	6	10.3	508	4	US-09-369-247-167
20	6	10.3	511	4	US-09-543-681A-6490
21	6	10.3	511	4	US-09-134-000C-5362
22	6	10.3	539	4	US-09-291-922-26
23	6	10.3	581	4	US-09-489-039A-10559
24	6	10.3	590	4	US-09-134-001C-4390
25	6	10.3	601	4	US-09-336-643A-4
26	6	10.3	623	4	US-09-540-236-1934
27	6	10.3	751	4	US-09-252-991A-29893

28	6	10.3	1026	1	US-07-998-003A-95	Sequence 95, Appl
29	6	10.3	1026	1	US-08-453-274B-95	Sequence 95, Appl
30	6	10.3	1026	1	US-08-453-695A-95	Sequence 95, Appl
31	6	10.3	1026	1	US-08-268-161A-95	Sequence 95, Appl
32	6	10.3	1026	2	US-08-453-702A-95	Sequence 95, Appl
33	6	10.3	1026	3	US-09-099-639-95	Sequence 95, Appl
34	6	10.3	1026	5	PCT-US93-12588-95	Sequence 95, Appl
35	6	10.3	1026	5	PCT-US95-08071-95	Sequence 95, Appl
36	6	10.3	1203	1	US-07-998-003A-103	Sequence 103, App
37	6	10.3	1203	1	US-08-453-274B-103	Sequence 103, App
38	6	10.3	1203	1	US-08-453-695A-103	Sequence 103, App
39	6	10.3	1203	1	US-08-268-161A-103	Sequence 103, App
40	6	10.3	1203	2	US-08-453-702A-103	Sequence 103, App
41	6	10.3	1203	3	US-09-099-639-103	Sequence 103, App
42	6	10.3	1203	5	PCT-US93-12588-103	Sequence 103, App
43	6	10.3	1203	5	PCT-US95-08071-103	Sequence 103, App
44	6	10.3	1349	3	US-08-938-291A-6	Sequence 6, Appl
45	6	10.3	1349	4	US-09-589-619-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1
US-08-602-999A-268
; Sequence 268, Application US/08602999A
; Patent No. 6184205
; GENERAL INFORMATION:
; APPLICANT: SPARKS, Andrew B.
; APPLICANT: KAY, Brian K.
; APPLICANT: THORN, Judith M.
; APPLICANT: QUILLIAM, Lawrence A.
; APPLICANT: DER, Channing J.
; APPLICANT: FOLKES, Dana M.
; APPLICANT: RIDER, James E.
; TITLE OF INVENTION: SH3 BINDING PEPTIDES AND METHODS OF
; TITLE OF INVENTION: ISOLATING AND USING SAME
; NUMBER OF SEQUENCES: 467
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/602,999A
; FILING DATE: 16-FEB-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mirock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 1101-202
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 268:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; US-08-602-999A-268

Query Match 10.3%; Score 6; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 6.6;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 YPPAYP 56
| | | | |
Db 1 YPPAYP 6

RESULT 2

US-09-500-124-268
; Sequence 268, Application US/09500124
; Patent No. 6432920
; GENERAL INFORMATION:
; APPLICANT: SPARKS, Andrew B.
; APPLICANT: KAY, Brian K.
; APPLICANT: THORN, Judith M.
; APPLICANT: QUILLIAM, Lawrence A.
; APPLICANT: DER, Channing J.
; APPLICANT: FOLKES, Dana M.
; APPLICANT: RIDER, James E.
; TITLE OF INVENTION: SH3 BINDING PEPTIDES AND METHODS OF
; TITLE OF INVENTION: ISOLATING AND USING SAME
; NUMBER OF SEQUENCES: 467
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/09/500,124
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/602,999
; FILING DATE: 16-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Misrock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 1101-202
; TELEPHONE: (212) 790-3090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 268:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: Peptide
US-09-500-124-268

Query Match 10.3%; Score 6; DB 4; Length 12;
Best Local Similarity 100.0%; Pred. No. 6.6;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 YPPAYP 56
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Db 1 YPPAYP 6

RESULT 3

US-09-621-976-7261
; Sequence 7261, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.

; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7261
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7261

Query Match 10.3%; Score 6; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEEKRH 27
| | | | |
Db 86 SEEKRH 91

RESULT 4

US-09-460-384-35
; Sequence 35, Application US/09460384
; Patent No. 6337316
; GENERAL INFORMATION:
; APPLICANT: EL TAYAR, Nabil
; APPLICANT: BLECHNER, Steven
; APPLICANT: JAMESON, Brad
; APPLICANT: TEPPER, Mark
; TITLE OF INVENTION: CD28/CTLA-4 INHIBITING PEPTIDOMIMETICS,
; PHARMACEUTICAL COMPOSITIONS THEREOF, AND METHOD OF USING
; SAME
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 624 Ninth Street N.W., Ste. 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/09/460,384
; FILING DATE: 13-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US98/12312
; FILING DATE: 11-JUN-1998
; APPLICATION NUMBER: US 60/049,470
; FILING DATE: 12-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: YUN, Allen C
; REGISTRATION NUMBER: 37,971
; REFERENCE/DOCKET NUMBER: EL TAYAR-1A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 628-5197
; TELEFAX: (202) 737-3528
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 103 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 35:
US-09-460-384-35

Query Match 10.3%; Score 6; DB 4; Length 103;

Best Local Similarity 100.0%; Pred. No. 38;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 39 QQYQPY 44
Db 88 QQYQPY 93

RESULT 5
US-09-198-452A-1200
; Sequence 1200, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Grifffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1200
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-1200

Query Match 10.3%; Score 6; DB 4; Length 107;
Best Local Similarity 100.0%; Pred. No. 39;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 21 SSEEXR 26
Db 80 SSEEXR 85

RESULT 6
US-09-634-238-376
; Sequence 376, Application US/09634238
; Patent No. 6544772
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Havukkala, Ilkka J.
; APPLICANT: Bloksberg, Leonard, N.
; APPLICANT: Lubbers, Mark W.
; APPLICANT: Dekker, James
; APPLICANT: Christensson, Anna C.
; APPLICANT: Holland, Ross
; APPLICANT: O'Toole, Paul W.
; APPLICANT: Reid, Julian R.
; APPLICANT: Coolbear, Timothy
; TITLE OF INVENTION: Polynucleotides, materials incorporating
; TITLE OF INVENTION: them and methods for using them.
; FILE REFERENCE: 11000.1043U1
; CURRENT APPLICATION NUMBER: US/09/634,238
; CURRENT FILING DATE: 2000-08-08
; NUMBER OF SEQ ID NOS: 422
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 376
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Lactobacillus rhamnosus
US-09-634-238-376

Query Match 10.3%; Score 6; DB 4; Length 134;
Best Local Similarity 100.0%; Pred. No. 47;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 51 YPPAYP 56
Db 52 YPPAYP 57

us-10-079-754a-10.ra1

RESULT 7
US-09-489-039A-7386
; Sequence 7386, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 7386
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-7386

Query Match 10.3%; Score 6; DB 4; Length 146;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 18 RADSSS 23
Db 90 RADSSS 95

RESULT 8
US-09-134-000C-3551
; Sequence 3551, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3551
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-3551

Query Match 10.3%; Score 6; DB 4; Length 164;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 21 SSEEXR 26
Db 151 SSEEXR 156

RESULT 9
US-09-543-681A-4214
; Sequence 4214, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILI
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344

; SEQ ID NO 4214
; LENGTH: 201
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-4214

Query Match 10.3%; Score 6; DB 4; Length 201;
Best Local Similarity 100.0%; Pred. No. 65;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 MALILA 15
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|
|
|
Db 105 MALILA 110

RESULT 10

US-09-543-681A-5885
; Sequence 5885, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:

; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543.681A
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5885
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-5885

Query Match 10.3%; Score 6; DB 4; Length 216;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 FIMALI 13
|
|
|
|
Db 28 FIMALI 33

RESULT 11

US-09-489-039A-8060
; Sequence 8060, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:

; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489.039A
; PRIOR FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 8060
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-8060

Query Match 10.3%; Score 6; DB 4; Length 241;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 FIMALI 13
|
|
|
|
Db 183 FIMALI 188

RESULT 12

US-09-134-001C-3062
; Sequence 3062, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134.001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3062
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3062

Query Match 10.3%; Score 6; DB 4; Length 263;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 FIFVFI 9
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|
|
|
Db 10 FIFVFI 15

RESULT 13

US-09-543-681A-5642
; Sequence 5642, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:

; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRAB.
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543.681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5642
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-5642

Query Match 10.3%; Score 6; DB 4; Length 298;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 21 SSEEKR 26
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|
|
|
Db 264 SSEEKR 269

RESULT 14

US-08-605-284B-16
; Sequence 16, Application US/08605284B
; Patent No. 6060271
; GENERAL INFORMATION:

; APPLICANT: WALEWSKI, JOSE L.
; APPLICANT: RESCIO-PINTO, ESPERANZA
; TITLE OF INVENTION: VOLTAGE GATED SODIUM CHANNELS FROM
; TITLE OF INVENTION: HUMAN PERIPHERAL NERVE
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON, HARGRAVE, DEVANS & DOYLE LLP
; STREET: CLINTON SQUARE, P.O. BOX 1051


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; CITY: ROCHESTER
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 09-FEB-1996
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: BRAMAN, SUSAN J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 19603/800 (CRF D-1705)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1636
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 310 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-605-284B-16
;
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 380 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-09-097-889-25
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; Query Match 10.3%; Score 6; DB 3; Length 380;
; Best Local Similarity 100.0%; Pred. No. 1.1e-02;
; Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 12 LILAMI 17
; DB 299 LILAMI 304
;
; Search completed: April 19, 2004, 15:44:19
; Job time : 23 secs

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; CITY: ROCHESTER
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 09-FEB-1996
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: BRAMAN, SUSAN J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 19603/800 (CRF D-1705)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1636
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 310 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-605-284B-16
;
; Query Match 10.3%; Score 6; DB 3; Length 310;
; Best Local Similarity 100.0%; Pred. No. 93;
; Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 8 FINALI 13
; DB 67 FINALI 72
;
; RESULT 15
; US-09-097-889-25
; Sequence 25, Application US/09097889
; Patent No. 6218117
; GENERAL INFORMATION:
; APPLICANT: Hermsstadt, Corrina
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Davis, Robert E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR IDENTIFYING
; TITLE OF INVENTION: AGENTS THAT QUANTITATIVELY ALTER DETECTABLE
; TITLE OF INVENTION: EXTRAMITOCHONDRIAL DNA: MITOCHONDRIAL DNA RATIOS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 15-JUN-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Rosenman Ph.D., Stephen J.
; REGISTRATION NUMBER: 43,058
; REFERENCE/DOCKET NUMBER: 660088.417
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031

```

GenCore version 5.1.6
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OM protein - protein search, using sw model
Run on: April 19, 2004, 15:42:57 ; Search time 41 Seconds
(without alignments)
389.977 Million cell updates/sec

Title: US-10-079-754A-10
Perfect score: 58
Sequence: 1 MKIFVFVFMALILAMIRAD.....QQYQYQRYPLNYPAYPPF 58

Scoring table: OLIGO Gapop 60.0 , Gapext 60.0
Searched: 1124875 seqs, 275673149 residues
Word size : 0
Total number of hits satisfying chosen parameters: 1124875
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Listing first 45 summaries

Database : Published Applications AA:
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
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11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
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15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	58	100.0	58	13	US-10-079-754A-7
2	58	100.0	58	13	US-10-079-754A-10
3	51	87.9	58	13	US-10-079-754A-8
4	34	58.6	59	13	US-10-079-754A-12
5	27	46.6	70	13	US-10-079-754A-9
6	11	19.0	21	13	US-10-079-754A-11
7	8	13.8	363	12	US-10-425-114-70822
8	7	12.1	13	10	US-09-876-904A-586
9	7	12.1	62	12	US-10-210-172-168
10	7	12.1	72	12	US-10-424-599-145633
11	7	12.1	150	12	US-10-424-599-257786
12	6	10.3	12	9	US-09-927-436-1
13	6	10.3	12	14	US-10-161-791-268
14	6	10.3	47	12	US-10-210-172-170
15	6	10.3	52	12	US-10-424-599-164611

ALIGNMENTS

RESULT 1

US-10-079-754A-7
; Sequence 7, Application US/10079754A
; Publication No. US2002016425A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-7

Query Match 100.0%; Score 58; DB 13; Length 58;
Best Local Similarity 100.0%; Pred. No. 6.1e-53;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MKIFVFVFMALILAMIRADSSSEKHKRKKXKHGRYFQYQYQRYPLNYPAYPPF 58
DB 1 MKIFVFVFMALILAMIRADSSSEKHKRKKXKHGRYFQYQYQRYPLNYPAYPPF 58

Sequence 774, App
Sequence 229298,
Sequence 56, Appl
Sequence 61, Appl
Sequence 156798,
Sequence 221250,
Sequence 250830,
Sequence 47763, A
Sequence 225829,
Sequence 169059,
Sequence 266340,
Sequence 791, App
Sequence 224333,
Sequence 1200, Ap
Sequence 6237, Ap
Sequence 234852,
Sequence 279348,
Sequence 197414,
Sequence 216096,
Sequence 145916,
Sequence 73863, A
Sequence 205, App
Sequence 158623,
Sequence 159963,
Sequence 203488,
Sequence 279792,
Sequence 253119,
Sequence 175973,
Sequence 218681,
Sequence 218680,

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QY      8 FIMALILAMIRADSSEKRRKRRKHHRGVFPQQYQYQYVPLNYPPAYPFP 59
DB      8 FIMALILAMIRADSSEKRRKRRKHHRGVFPQQYQYQYVPLNYPPAYPFP 59

RESULT 4
US-10-079-754A-12
; Sequence 12, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-12

Query Match      58.6%; Score 34; DB 13; Length 59;
Best Local Similarity 100.0%; Pred. No. 6.3e-28;
Matches 34; Conservative 0; Mismatches 0; Indels 0;

QY      1 MKIIFVFMALILAMIRADSSEKRRKRRKHH 34
DB      1 NKIIFVFMALILAMIRADSSEKRRKRRKHH 34

RESULT 5
US-10-079-754A-9
; Sequence 9, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Bovine

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US-10-079-754A-9

Query Match 46.6%; Score 27; DB 13; Length 70;
Best Local Similarity 100.0%; Pred. No. 1.4e-20;
Matches 27; Conservative 0; Mismatches 0; Indels

Qy 8 FIMALILAMIRADSSSEKRRKRKHH 34
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Db 8 FIMALILAMIRADSSSEKRRKRKHH 34

RESULT 6

US-10-079-754A-11
; Sequence 11, Application US/10079754A
; Publication No. US20020164525A1

GENERAL INFORMATION:
APPLICANT: Glenn, Matthew
APPLICANT: Grigor, Murray R.
APPLICANT: Molenaar, Adrian J.
APPLICANT: Davis, Stephen R.
TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use

Query Match 19.0%; Score 11; DB 13; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 11; Conservative 0; Mismatches 0; Indels

QY 46 RYPLNYPPAYP 56
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Db 9 RYPLNYPPAYP 19

RESULTS

US-10-425-114-70822
; Sequence 70822, Application US/10425114
; Publication No. US20040034888A1

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: GENERAL INFORMATION:
: APPLICANT: Liu, Jingdong
: APPLICANT: Zhou, Yihua
: APPLICANT: Kovalic, David K.
: APPLICANT: Screen, Steven E
: APPLICANT: Tabaska, Jack E
: APPLICANT: Cao, Yongwei
: TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
: TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
: FILE REFERENCE: 38-21(53313)B
: CURRENT APPLICATION NUMBER: US/10/425,114
: CURRENT FILING DATE: 2003-04-28
: NUMBER OF SEQ ID NOS: 73128

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US-10-425-114-70822

Query Match 13.8%; Score 8; DB 12; Length 363;
Best Local Similarity 100.0%; Pred. No. 3.8;
Matches 8; Conservative 0; Mismatches 0; Indels

QY 51 YPPAYPPP 58
| | | | |
Db 78 YPPAYPPP 85

RESULT 8

US-09-876-904A-586
; Sequence 586, Application US/09876904A
; Publication No. US20030072794A1

; GENERAL INFORMATION:
 ; APPLICANT: BOULIKAS, TENI
 ; TITLE OF INVENTION: ENCAPSULATION OF PLASMID DNA (LIPOGENES TM) AND THERAPEUTIC
 ; TITLE OF INVENTION: AGENTS WITH NUCLEAR LOCALIZATION SIGNAL/FUSOGENIC PEPTIDE
 ; TITLE OF INVENTION: CONJUGATES INTO TARGETED LIPOSOOME COMPLEXES

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, FILE REFERENCE: TB-2002.00
, CURRENT APPLICATION NUMBER: US/09/876,904A
,
, CURRENT FILING DATE: 2001-06-08
,
, PRIOR APPLICATION NUMBER: US 60/210,925
,
, PRIOR FILING DATE: 2000-06-09
,
, NUMBER OF SEQ ID NOS: 629
, SOFTWARE: PatentIn Ver. 2.1
, SEQ ID NO 586
, LENGTH: 13
, TYPE: PRT
, ORGANISM: Psammecchinus miliaris
, FEATURE:
, OTHER INFORMATION: Sea urchin Psammecchinus miliaris H2B (122 aa).
US-09-876-904A-586

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Query Match 12.1%; Score 7; DB 10; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 7; Conservative 0; Mismatches 0; Indels

Qy 25 KRHRKRK 31
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pb 4 KRHRKRK 10

RESULT 9

US-10-210-172-168
; Sequence 168, Application US/10210172
: Publication No. US20040043928A1

GENERAL INFORMATION: Ramesh
APPLICANT: Kexuda, Ramesh
APPLICANT: Miller, Charles
APPLICANT: Patturajan, Meera
APPLICANT: Pena, Carol
APPLICANT: Rieger, Daniel
APPLICANT: Shimkets, Richard
APPLICANT: Zerhusen, Bryan
APPLICANT: Li, Li
APPLICANT: Li, Weizhen
APPLICANT: Padigaru, Muralidhara
APPLICANT: Casman, Stacie
APPLICANT: Voss, Edward
APPLICANT: Boldog, Ferenc
APPLICANT: Gorman, Linda
APPLICANT: Leite, Mario
APPLICANT: Vernet, Corine
APPLICANT: Anderson, David
APPLICANT: Guo, Xiaojia
APPLICANT: Zhong, Mei
APPLICANT: Gerlach, Valerie
APPLICANT: Hsatt, Tord
APPLICANT: Raestelli, Luca
APPLICANT: Spytek, Kimberly
APPLICANT: Edinger, Shlomitz

APPLICANT: Ellerman, Karen
APPLICANT: Malyankar, Uriel
APPLICANT: MacDougall, John
APPLICANT: Stone, David
APPLICANT: Alsobrook II, John
APPLICANT: Leplev, Denise et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-416 A
CURRENT APPLICATION NUMBER: US/10/210,172
CURRENT FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/309,501
PRIOR FILING DATE: 2001-08-02
PRIOR APPLICATION NUMBER: 60/323,994
PRIOR FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/373,814
PRIOR FILING DATE: 2002-04-19
PRIOR APPLICATION NUMBER: 60/310,291
PRIOR FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: 60/310,951
PRIOR FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: 60/310,544
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: 60/311,292
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/311,979
PRIOR FILING DATE: 2001-08-13
PRIOR APPLICATION NUMBER: 60/313,201
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: 60/312,892
PRIOR FILING DATE: 2001-08-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 327
SOFTWARE: Curaseq1ist version 0.1
SEQ ID NO 168
LENGTH: 62
TYPE: PRT
ORGANISM: Homo sapiens
US-10-210-172-168

Query Match 12.1%; Score 7; DB 12; Length 62;
Best Local Similarity 100.0%; Pred. No. 9;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 ADSSEEK 25
Db 19 ADSSEEK 25

RESULT 10
US-10-424-599-145633
Sequence 145633, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 145633
LENGTH: 72
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_102525C.1.pap
US-10-424-599-145633

Query Match 12.1%; Score 7; DB 12; Length 72;
Best Local Similarity 100.0%; Pred. No. 10;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 IFIEVFI 9
Db 47 IFIEVFI 53
RESULT 11
US-10-424-599-257786
Sequence 257786, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 257786
LENGTH: 150
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(150)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_74804C.1.pap
US-10-424-599-257786

Query Match 12.1%; Score 7; DB 12; Length 150;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 LAMIRAD 20
Db 20 LAMIRAD 26

RESULT 12
US-09-927-436-1
Sequence 1, Application US/09927436
Patent No. US20020155455A1
GENERAL INFORMATION:
APPLICANT: Tadayoni-Rebek, Mitra
APPLICANT: Amshay, Joseph W.
APPLICANT: Rooney, Regina
TITLE OF INVENTION: Highly Homogeneous Molecular Markers for Electrophoresis
FILE REFERENCE: 0942.5300001
CURRENT APPLICATION NUMBER: US/09/927,436
CURRENT FILING DATE: 2001-08-13
PRIOR APPLICATION NUMBER: US 60/224,345
PRIOR FILING DATE: 2000-08-11
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 12
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Synthetic peptide
NAME/KEY: MOD_RES
LOCATION: (2)..(2)
OTHER INFORMATION: Modified with fluorescein
NAME/KEY: MOD_RES
LOCATION: (5)..(5)
OTHER INFORMATION: Modified with fluorescein
US-09-927-436-1

Query Match 10.3%; Score 6; DB 9; Length 12;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 29 KKKGH 34
Db 3 KKKGH 8

RESULT 13
US-10-161-791-268
; Sequence 268, Application US/10161791
; Publication No. US2003018663A1
; GENERAL INFORMATION:
; APPLICANT: SPARKS, Andrew B.
; APPLICANT: KAY, Brian K.
; APPLICANT: THORN, Judith M.
; APPLICANT: QUILLIAM, Lawrence A.
; APPLICANT: DER, Channing J.
; APPLICANT: FOWLKES, Dana M.
; APPLICANT: RIDER, James E.
; TITLE OF INVENTION: SH3 BINDING PEPTIDES AND METHODS OF
; ISOLATING AND USING SAME
; NUMBER OF SEQUENCES: 467
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/161,791
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/602,999
; FILING DATE: 16-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Mirock, S Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 1101-202
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 268:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
US-10-161-791-268

Query Match 10.3%; Score 6; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 YPPAYP 56
Db 1 YPPAYP 6

RESULT 14
US-10-210-172-170
; Sequence 170, Application US/10210172
; Publication No. US20040043928A1

GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Miller, Charles
; APPLICANT: Patturajan, Meera
; APPLICANT: Pena, Carol
; APPLICANT: Rieger, Daniel
; APPLICANT: Shimkets, Richard
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Li, Li
; APPLICANT: Ji, Weizhen
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Casman, Stacie
; APPLICANT: Voss, Edward
; APPLICANT: Boldog, Ferenc
; APPLICANT: Gorman, Linda
; APPLICANT: Leites, Mario
; APPLICANT: Vernet, Corine
; APPLICANT: Anderson, David
; APPLICANT: Guo, Xiaojia
; APPLICANT: Zhong, Mei
; APPLICANT: Hjal, Tord
; APPLICANT: Rastelli, Luca
; APPLICANT: Spytsek, Kimberly
; APPLICANT: Edinger, Shlomit
; APPLICANT: Ellerman, Karen
; APPLICANT: Malyankar, Uriel
; APPLICANT: MacDougall, John
; APPLICANT: Stone, David
; APPLICANT: Alsobrook II, John
; APPLICANT: Lepley, Denise et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHO
; FILE REFERENCE: 21402-416 A
; CURRENT APPLICATION NUMBER: US/10/210,172
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/309,501
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: 60/323,994
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 60/373,814
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: 60/310,291
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 60/310,951
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/310,544
; PRIOR FILING DATE: 2001-08-07
; PRIOR APPLICATION NUMBER: 60/311,292
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/311,979
; PRIOR FILING DATE: 2001-08-13
; PRIOR APPLICATION NUMBER: 60/313,201
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 60/312,892
; PRIOR FILING DATE: 2001-08-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 327
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO: 170
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-210-172-170

Query Match 10.3%; Score 6; DB 12; Length 47;
Best Local Similarity 100.0%; Pred. No. 77;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 DSSEK 25
Db 3 DSSEK 8

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RESULT 15
US-10-424-599-164611
; Sequence 164611, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 164611
; LENGTH: 52
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(52)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_119661C.1.pap
US-10-424-599-164611

Query Match      10.3%  Score 6;  DB 12;  Length 52;
Best Local Similarity 100.0%;  Pred. No. 85;
Matches      6;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

Qy      43 PYQRYP 48
Db      35 PYQRYP 40

Search completed: April 19, 2004, 15:48:56
Job time : 42 secs
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Sequence 17, Appl
Sequence 7, Appl
Sequence 20, Appl
Sequence 1, Appl
Patent No. 5198347
Sequence 5, Appl
Sequence 3, Appl
Sequence 1, Appl
Sequence 37, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 30, Appl
Sequence 28, Appl
Sequence 28, Appl
Sequence 28, Appl
Sequence 28, Appl
Sequence 28, Appl
Sequence 28, Appl
Sequence 17, Appl
Sequence 71, Appl
Sequence 33, Appl
Sequence 34, Appl
Sequence 38, Appl
Sequence 33, Appl
Sequence 34, Appl
Sequence 38, Appl
Sequence 33, Appl
Sequence 34, Appl

2624 2 US-08-486-663A-17
2624 2 US-08-247-904B-7
2624 3 US-08-767-942A-20
2625 6 5198347-3
3157 6 5198347-3
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3484 3 US-09-632-580A-3
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5555 1 US-08-484-438-3
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1830121 4 US-09-557-884A-1
1830121 4 US-09-643-990A-1
38 1 US-07-967-693-30
38 1 US-08-195-072-28
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38 2 US-08-443-153-28
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38 3 US-08-856-331-17
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51 2 US-08-481-710-71
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51 5 PCT-US96-09537-71
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69 2 US-08-477-527A-34
69 2 US-08-477-527A-38
69 3 US-08-481-710-33
69 3 US-08-481-710-34
69 3 US-08-481-710-38
69 5 PCT-US96-09537-33
69 5 PCT-US96-09537-34

ALIGNMENTS

RESULT 1
US-08-434-099A-26
; Sequence 26, Application US/08434099A
; Patent No. 6083902
; GENERAL INFORMATION:
; APPLICANT: Cedarholm-Wms., Stewart A.
; TITLE OF INVENTION: Recombinant Fibrin Chains,
; TITLE OF INVENTION: Fibrin and Fibrin-Homologs
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: E. R. Squibb & Sons, Inc.
; STREET: 100 Headquarters Park Drive
; CITY: Skillman
; STATE: NJ
; COUNTRY: USA
; ZIP: 08558
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/434,099A
; FILING DATE: 03-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/236,979
; FILING DATE: 02-MAY-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Futman, Jr., Esq., Theodore R
; REGISTRATION NUMBER: 30,942
; REFERENCE/DOCKET NUMBER: CV0054a
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-281-2372
; TELEFAX: 908-281-2373
; TELEX:

us-10-079-754a-10.rni

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OM protein - nucleic search, using frame_plus_p2n model

Run on: April 20, 2004, 04:49:05 ; Search time 78 Seconds
(without alignments)
412.656 Million cell updates/sec

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Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues

Word size: 1

Total number of hits satisfying chosen parameters: 1360396

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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-DB=issued Patents NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR_MIN=1 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US10079754@cgn 1 1.85 @runat_19042004_135108_23693 -NCPU=6 -ICPU=3
-NO WMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THRESH=1 -XGAPOP=60 -XGAEXT=60 -FGAPOP=6
-FGAEXT=7 -YGAPOP=60 -YGAEXT=6 -DELOP=6 -DELEXT=7

Database : Issued Patents NA:
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5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	8	13.8	1438	3	US-08-434-099A-26
2	8	13.8	10564	1	US-08-208-176-5
3	7	12.1	711	4	US-09-543-681A-2950
4	7	12.1	1062	4	US-09-543-681A-1164
5	7	12.1	1509	4	US-09-134-000C-1868
6	7	12.1	1914	4	US-09-543-681A-2340
7	7	12.1	2082	4	US-09-543-681A-2670
8	7	12.1	2437	1	US-08-456-647B-3
9	7	12.1	2437	2	US-08-237-401A-3
10	7	12.1	2598	1	US-08-100-692-4
11	7	12.1	2598	2	US-08-674-030-4
12	7	12.1	2619	4	US-09-166-350-28

INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 1438 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 3...1364
OTHER INFORMATION:
US-08-434-099A-26

Alignment Scores:
Pred. No.: 9.99 Length: 1438
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 13.79% Indels: 0
DB: 3 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-434-099A-26 (1-1438)

Qy 10 MetAlaLeuileuAlaMetille 17
Db 1003 ATGGCTTTGATTTGGCGATGATC 1026

RESULT 2

US-08-206-176-5
Sequence 5, Application US/08206176
Patent No. 5639940
GENERAL INFORMATION:
APPLICANT: Garner, Ian
APPLICANT: Dairymple, Michael A
APPLICANT: Prunkard, Donna E
APPLICANT: Foster, Donald C
TITLE OF INVENTION: Production of Fibrinogen in Transgenic
TITLE OF INVENTION: Animals
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: ZymoGenetics, Inc.
STREET: 4225 Roosevelt Way, N.E.
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/206,176
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Parker, Gary E
REGISTRATION NUMBER: 31-648
REFERENCE/DOCKET NUMBER: 93-15
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-547-8080 ext 322
TELEFAX: 206-548-2329
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 10564 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
IMMEDIATE SOURCE:
CLONE: human fibrinogen gamma chain
FEATURE:
NAME/KEY: CDS
LOCATION: join(1799..1876, 1973..2017, 2207..2390, 2510

LOCATION: ..2603, 4211..4341, 4645..4778, 5758..5942, 7426
LOCATION: ..7703, 9342..9571)
US-08-206-176-5
Alignment Scores:
Pred. No.: 63 Length: 10564
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 13.79% Indels: 0
DB: 1 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-206-176-5 (1-10564)

Qy 10 MetAlaLeuileuAlaMetille 17
Db 7524 ATGGCTTTGATTTGGCGATGATC 7547

RESULT 3

US-09-543-681A-2950
Sequence 2950, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRAB1
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 2950
LENGTH: 711
TYPE: DNA
ORGANISM: Proteus mirabilis
US-09-543-681A-2950

Alignment Scores:
Pred. No.: 61.8 Length: 711
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-543-681A-2950 (1-711)

Qy 8 PheileVetAlaLeuileu 14
Db 377 TTCATAATGGCATTGATATG 397

RESULT 4

US-09-543-681A-1164
Sequence 1164, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRAB1
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 1164
LENGTH: 1062
TYPE: DNA
ORGANISM: Proteus mirabilis
US-09-543-681A-1164

Alignment Scores:

Pred. No.: 89.5 Length: 1062
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-543-681A-1164 (1-1062)

QY 8 PheileMetAlaLeuileLeu 14
|||||
DB 467 TTTATTATGGCACTAATCCTA 487

RESULT 5

US-09-134-000C-1868/c
; Sequence 1868, Application US/09134000C
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1868
; LENGTH: 1509
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-09-134-000C-1868

Alignment Scores:

Pred. No.: 124 Length: 1509
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-134-000C-1868 (1-1509)

QY 3 IlePheIlePheValPheile 9
|||||
DB 1212 ATTATTATTTTGGTTTCATC 1192

RESULT 6

US-09-543-681A-2340/c
; Sequence 2340, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILI
; FILE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 2340
; LENGTH: 1914
; TYPE: DNA
; ORGANISM: Proteus mirabilis
US-09-543-681A-2340

Alignment Scores:
Pred. No.: 154 Length: 1914
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0

Query Match: 12.07% Indels: 0
DB: 4 Gaps: 0
US-10-079-754A-10 (1-58) x US-09-543-681A-2340 (1-1914)

QY 3 IlePheIlePheValPheile 9
|||||
DB 669 ATCTTCATCTTCGTTTCATC 649

RESULT 7

US-09-543-681A-2670/c
; Sequence 2670, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILI
; FILE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 2670
; LENGTH: 2082
; TYPE: DNA
; ORGANISM: Proteus mirabilis
US-09-543-681A-2670

Alignment Scores:

Pred. No.: 167 Length: 2082
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-543-681A-2670 (1-2082)

QY 51 TyrProAlaTyrProPhe 57
|||||
DB 1399 TACCCGCCAGCGTATCCATTT 1379

RESULT 8

US-08-456-647B-3/c
; Sequence 3, Application US/08456647B
; Patent No. 5811516
; GENERAL INFORMATION:
; APPLICANT: Lemke Ph.D. et al., Greg E.
; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: US
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/456,647B
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/237,401
; FILING DATE: 02-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/884,486
; FILING DATE: 15-MAY-1992

```

; ATTORNEY/AGENT INFORMATION:
; NAME: Wetherell Ph.D., John R.
; REGISTRATION NUMBER: 31,678
; REFERENCE/DOCKET NUMBER: 07251/007002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2437 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; IMMEDIATE SOURCE:
; CLONE: Tyro-2
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..2118
US-08-456-647B-3

Alignment Scores:
Pred. No.: 193 Length: 2437
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 1 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-456-647B-3 (1-2437)-
QY 13 IleleuAlaMetileArgala 19
Db 565 ATACTGCCATGATCAGAGCC 545

RESULT 9
US-08-237-401A-3/c
; Sequence 3, Application US/08237401A
; Patent No. 5837448
; GENERAL INFORMATION:
; APPLICANT: Lemke Ph.D. et al., Greg E.
; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: US
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/237,401A
; FILING DATE: 02-MAY-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/884,486
; FILING DATE: 15-MAY-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile Ph.D., Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07251/007001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ-ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2437 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1010..1321
US-08-100-692-4

Alignment Scores:
Pred. No.: 204 Length: 2598
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 2 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-237-401A-3 (1-2437)
QY 13 IleleuAlaMetileArgala 19
Db 565 ATACTGCCATGATCAGAGCC 545

RESULT 10
US-08-100-692-4/c
; Sequence 4, Application US/08100692
; Patent No. 5832348
; GENERAL INFORMATION:
; APPLICANT: Huibregtse, Jon M.
; APPLICANT: Scheffner, Martin
; APPLICANT: Howley, Peter M.
; TITLE OF INVENTION: B6 ASSOCIATED PROTEIN AND METHODS OF USE
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/100,692
; FILING DATE: 19930730
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: Parmelee, Steven W.
; REGISTRATION NUMBER: 31,990
; REFERENCE/DOCKET NUMBER: 15280-91
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 467-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2598 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1010..1321
US-08-100-692-4

Alignment Scores:
Pred. No.: 204 Length: 2598
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 2 Gaps: 0
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Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 1 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-100-692-4 (1-2598)

QY 3 IlePheIlePheValPheille 9
DB 543 ATCTTCATCTTTGTCCTCATC 523

RESULT 11

US-08-674-030-4/c
; Sequence 4, Application US/08674030
; Patent No. 5914389
; GENERAL INFORMATION:
; APPLICANT: Huibregtse, Jon M.
; APPLICANT: Scheffner, Martin
; APPLICANT: Howley, Peter M.
; TITLE OF INVENTION: E6 ASSOCIATED PROTEIN AND METHODS OF USE
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 94105-1492

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/674,030
; FILING DATE: 01-JUL-1996
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/100,692
; FILING DATE: 30-JUL-1993

ATTORNEY/AGENT INFORMATION:
; NAME: Parmelee, Steven W.
; REGISTRATION NUMBER: 31,990
; REFERENCE/DOCKET NUMBER: 15280-91
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 467-9600
; TELEFAX: (415) 543-5043

INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2598 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1010..1321

US-08-674-030-4

Alignment Scores:
Pred. No.: 204 Length: 2598
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 2 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-674-030-4 (1-2598)

QY 3 IlePheIlePheValPheille 9
DB 543 ATCTTCATCTTTGTCCTCATC 523

RESULT 12

US-09-166-350-28/c
; Sequence 28, Application US/09166350A
; Patent No. 6440663
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Matthew
; APPLICANT: Chen, Yao
; APPLICANT: Stockert, Elisabeth
; APPLICANT: Old, Lloyd
; APPLICANT: Jager, Eike
; APPLICANT: Knuth, Alex

; TITLE OF INVENTION: Renal Cancer Associated Antigens and
; TITLE OF INVENTION: Uses Therefor
; FILE REFERENCE: 10461/7051
; CURRENT APPLICATION NUMBER: US/09/166,350A
; CURRENT FILING DATE: 1998-10-05
; EARLIER APPLICATION NUMBER: US 09/166,350
; EARLIER FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 2619
; TYPE: DNA
; ORGANISM: Homo sapiens

US-09-166-350-28

Alignment Scores:
Pred. No.: 206 Length: 2619
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-166-350-28 (1-2619)

QY 3 IlePheIlePheValPheille 9
DB 564 ATCTTCATCTTTGTCCTCATC 544

RESULT 13

US-08-486-663A-17/c
; Sequence 17, Application US/08486663A
; Patent No. 5968761
; GENERAL INFORMATION:
; APPLICANT: Rolfe, Mark
; APPLICANT: Eckstein, Jens W.
; APPLICANT: Draetta, Giulio
; APPLICANT: Guillaume Cottarel

; TITLE OF INVENTION: Ubiquitin Conjugating Enzymes
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII(text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,663A
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Vincent, Matthew P.

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/ REGISTRATION NUMBER: 36,709
/ REFERENCE/DOCKET NUMBER: M11-029CP2
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 17:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2624 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: both
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 1..2625
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/ US-08-486-663A-17
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/ Alignment Scores:
/ Pred. No.: 206 Length: 2624
/ Score: 7.00 Matches: 7
/ Percent Similarity: 100.00% Conservative: 0
/ Best Local Similarity: 100.00% Mismatches: 0
/ Query Match: 12.07% Indels: 0
/ DB: 2 Gaps: 0
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/ US-10-079-754A-10 (1-58) x US-08-486-663A-17 (1-2624)
/
/ Qy 3 ilePheillePheValPheille 9
/ Db 543 ATCTTCATCTTGTGCTTCATC 523
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/ RESULT 14
/ US-08-247-904B-7/c
/ Sequence 7, Application US/08247904B
/ Patent No. 5981699
/ GENERAL INFORMATION:
/ APPLICANT: Rolfe, Mark
/ APPLICANT: Eckstein, Jens W.
/ APPLICANT: Draetta, Giulio
/ TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme
/ NUMBER OF SEQUENCES: 17
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Foley, Hoag & Eliot
/ STREET: One Post Office Square
/ CITY: Boston
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02109
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: ASCII(text)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/247,904B
/ FILING DATE: 23-MAY-1994
/ CLASSIFICATION: 530
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Vincent, Matthew P.
/ REGISTRATION NUMBER: 36,709
/ REFERENCE/DOCKET NUMBER: M1V-029.01
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 832-1000
/ TELEFAX: (617) 832-7000
/ INFORMATION FOR SEQ ID NO: 7:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2624 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: both
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
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/ US-08-486-663A-17
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/ Alignment Scores:
/ Pred. No.: 206 Length: 2624
/ Score: 7.00 Matches: 7
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/ Best Local Similarity: 100.00% Mismatches: 0
/ Query Match: 12.07% Indels: 0
/ DB: 2 Gaps: 0
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/ US-10-079-754A-10 (1-58) x US-08-486-663A-17 (1-2624)
/
/ Qy 3 ilePheillePheValPheille 9
/ Db 543 ATCTTCATCTTGTGCTTCATC 523
/
/ RESULT 15
/ US-08-767-942A-20/c
/ Sequence 20, Application US/08767942A
/ Patent No. 6068982
/ GENERAL INFORMATION:
/ APPLICANT: Rolfe, Mark
/ APPLICANT: Chiu, M. Isabel
/ APPLICANT: Berlin, Vivian
/ APPLICANT: Damagnez, Veronique
/ APPLICANT: Draetta, Giulio
/ APPLICANT: Guillaume, Cottarel
/ TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES
/ NUMBER OF SEQUENCES: 45
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: FOLEY, HOAG & ELIOT LLP
/ STREET: One Post Office Square
/ CITY: Boston
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02109-2170
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/767,942A
/ FILING DATE: 17-DEC-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Vincent, Matthew P.
/ REGISTRATION NUMBER: 36,709
/ REFERENCE/DOCKET NUMBER: M1V-029.04
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-832-1000
/ TELEFAX: 617-832-7000
/ INFORMATION FOR SEQ ID NO: 20:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2624 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: both
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 1..2622
/
/ US-08-767-942A-20
/
/ Alignment Scores:
/ Pred. No.: 206 Length: 2624
/ Score: 7.00 Matches: 7
/ Percent Similarity: 100.00% Conservative: 0
/ Best Local Similarity: 100.00% Mismatches: 0
/ Query Match: 12.07% Indels: 0
/ DB: 3 Gaps: 0
/
/ US-10-079-754A-10 (1-58) x US-08-767-942A-20 (1-2624)
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QY 3 IlePheIlePheValPheIle 9
Db |||||
543 ATCTTCACTTTGTCTTCATC 523

Search completed: April 20, 2004, 05:56:40
Job time : 107 secs

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: April 20, 2004, 05:51:26 ; Search time 331 Seconds
(without alignments)
784.066 Million cell updates/sec

Title: US-10-079-754A-10

Perfect score: 58
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-TRANS=human40.cdi -LIST=45 -DOCALLIGN=200 -THR SCORE=quality -THR MIN=1

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-LONGLOG -DEV TIMEOUT=120 -WARN -TIMEOUT=30 -THRSADS=1 -XGAPOP=60 -XGAPEXT=60

-XGAPOP=6 -XGAPEXT=7 -XGAPOP=60 -XGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

Published Applications NA:
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16: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq*
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19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
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1	58	100.0	267	14	US-10-079-754A-15	Sequence 15, Appl
2	58	100.0	267	14	US-10-079-623-200	Sequence 200, App
3	58	100.0	505	14	US-10-079-754A-1	Sequence 1, Appl
4	58	100.0	604	14	US-10-079-754A-4	Sequence 4, Appl
5	51	87.9	585	14	US-10-079-754A-2	Sequence 2, Appl
6	34	58.6	525	14	US-10-079-754A-6	Sequence 6, Appl
7	27	46.6	869	14	US-10-079-754A-3	Sequence 3, Appl
8	11	19.0	96	14	US-10-079-754A-5	Sequence 5, Appl
c	9	15.5	7726	13	US-09-812-350-48	Sequence 48, Appl
9	8	13.8	181	10	US-09-918-995-8815	Sequence 8815, App
c	11	8	339	13	US-10-424-593-92870	Sequence 92870, A
12	8	13.8	330	10	US-09-918-995-8225	Sequence 8225, App
13	8	13.8	464	10	US-09-918-995-8118	Sequence 8118, App
c	14	8	870	15	US-10-198-846-5963	Sequence 5963, App
15	8	13.8	1485	13	US-10-425-114-31277	Sequence 31277, A
16	8	13.8	1605	15	US-10-198-846-13051	Sequence 13051, A
17	7	12.1	320	9	US-09-962-832-138	Sequence 138, App
18	7	12.1	320	9	US-09-954-531-1010	Sequence 1010, App
c	19	7	349	9	US-09-770-791-721	Sequence 721, App
c	20	7	349	13	US-10-283-122A-16688	Sequence 16688, A
21	7	12.1	358	9	US-09-917-800A-522	Sequence 522, App
22	7	12.1	358	16	US-10-191-803-1105	Sequence 1105, App
c	23	7	364	10	US-09-873-367C-617	Sequence 617, App
24	7	12.1	369	13	US-10-424-599-40304	Sequence 40304, A
c	25	7	412	9	US-09-860-670-20	Sequence 20, Appl
c	26	7	412	16	US-10-227-646-20	Sequence 20, Appl
c	27	7	427	9	US-09-960-352-10246	Sequence 10246, A
c	28	7	454	13	US-10-424-599-114944	Sequence 114944, A
c	29	7	485	10	US-09-918-995-32017	Sequence 32017, A
c	30	7	500	10	US-09-991-936-148	Sequence 148, App
c	31	7	509	13	US-10-424-599-36128	Sequence 36128, A
c	32	7	520	13	US-10-027-632-60602	Sequence 60602, A
c	33	7	520	13	US-10-027-632-60603	Sequence 60603, A
c	34	7	520	13	US-10-027-632-61489	Sequence 61489, A
c	35	7	520	13	US-10-027-632-61490	Sequence 61490, A
c	36	7	520	13	US-10-027-632-61688	Sequence 61688, A
c	37	7	520	13	US-10-027-632-61689	Sequence 61689, A
c	38	7	520	13	US-10-027-632-62287	Sequence 62287, A
c	39	7	520	13	US-10-027-632-62288	Sequence 62288, A
c	40	7	520	16	US-10-027-632-60602	Sequence 60602, A
c	41	7	520	16	US-10-027-632-60603	Sequence 60603, A
c	42	7	520	16	US-10-027-632-61489	Sequence 61489, A
c	43	7	520	16	US-10-027-632-61490	Sequence 61490, A
c	44	7	520	16	US-10-027-632-61688	Sequence 61688, A
c	45	7	520	16	US-10-027-632-61689	Sequence 61689, A

ALIGNMENTS

RESULT 1

US-10-079-754A-15
; Sequence 15, Application US/10079754A
; Publication No. US2002016425A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-15
Alignment Scores:
Pred. No.:      8,27e-54      Length:      267
Score:          58.00         Matches:     58
Percent Similarity: 100.00%   Conservatve: 0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    100.00%      Indels:       0
DB:             14           Gaps:        0

US-10-079-754A-10 (1-58) x US-10-079-754A-15 (1-267)
Qy      1 MetLyslePhelePheValPheMetAlaLeuileuAlaMetileArgAlaasp 20
Db      44 ATGAAGATCTTTATCTTTGCTTCATTTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 103
Qy      21 SerSerGlulLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db      104 TCATCTGAAGAGAAACGTCACAGAAACGGAACAAACATCATAGAGATATTTTCAACAA 163
Qy      41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db      164 TACCAGCCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 217

RESULT 2
US-10-079-623-200
; Sequence 200, Application US/10079623
; Publication No. US20020169302A1
; GENERAL INFORMATION:
; APPLICANT: Havukkala, Ilkka J.
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; TITLE OF INVENTION: Compositions isolated from bovine
; TITLE OF INVENTION: mammary gland and methods for their use.
; FILE REFERENCE: 11000.1044c3
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 370
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 200
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-623-200
Alignment Scores:
Pred. No.:      8,27e-54      Length:      267
Score:          58.00         Matches:     58
Percent Similarity: 100.00%   Conservatve: 0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    100.00%      Indels:       0
DB:             14           Gaps:        0

US-10-079-754A-10 (1-58) x US-10-079-623-200 (1-267)
Qy      1 MetLyslePhelePheValPheMetAlaLeuileuAlaMetileArgAlaasp 20
Db      44 ATGAAGATCTTTATCTTTGCTTCATTTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 103
Qy      21 SerSerGlulLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db      104 TCATCTGAAGAGAAACGTCACAGAAACGGAACAAACATCATAGAGATATTTTCAACAA 163
Qy      41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db      164 TACCAGCCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 217

RESULT 3
US-10-079-754A-1
; Sequence 1, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions isolated from bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1088
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 505
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-1
Alignment Scores:
Pred. No.:      1,52e-53      Length:      505
Score:          58.00         Matches:     58
Percent Similarity: 100.00%   Conservatve: 0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    100.00%      Indels:       0
DB:             14           Gaps:        0

US-10-079-754A-10 (1-58) x US-10-079-754A-1 (1-505)
Qy      1 MetLyslePhelePheValPheMetAlaLeuileuAlaMetileArgAlaasp 20
Db      44 ATGAAGATCTTTATCTTTGCTTCATTTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 103
Qy      21 SerSerGlulLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db      104 TCATCTGAAGAGAAACGTCACAGAAACGGAACAAACATCATAGAGATATTTTCAACAA 163
Qy      41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db      164 TACCAGCCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 217

RESULT 4
US-10-079-754A-4
; Sequence 4, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions isolated from bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330

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; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 604
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-4
Alignment Scores:
Pred. No.: 1.81e-53 Length: 604
Score: 58.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-4 (1-604)

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Db 154 ATGAAGATCTTTATCTTGTCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213

Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db 214 TCATCTGAAGAGAAACGTCACAGGAACGGAAAAACATCATAGAGGATTTTCAACAA 273

Qy 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
Db 274 TACCAGCCATATCAACGATATCCACTAAATTATCTCTCGGTATCCATTTCCT 327

RESULT 5
US-10-079-754A-2
; Sequence 2, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigori, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
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; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 525
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-6

Alignment Scores:
Pred. No.: 1.37e-27 Length: 525
Score: 34.00 Matches: 34
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 58.62% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-6 (1-525)

Qy 1 MetLyslePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaasp 20
Db 43 ATGAAGATCTTTATCTTGTCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 102

Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisHis 34
Db 103 TCATCTGAAGAGAAACGTCACAGGAACGGAAAAACATCAT 144

RESULT 7
US-10-079-754A-3
; Sequence 3, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigori, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
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; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US 60,162,701
 ; PRIOR FILING DATE: 1999-10-29
 ; PRIOR APPLICATION NUMBER: US 09/644,190
 ; PRIOR FILING DATE: 2000-08-22
 ; PRIOR APPLICATION NUMBER: US 60,150,330
 ; PRIOR FILING DATE: 1999-08-23
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 869
 ; TYPE: DNA
 ; ORGANISM: Bovine
 US-10-079-754A-3

Alignment Scores:
 Pred. No.: 8,12e-20 Length: 869
 Score: 27.00 Matches: 27
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 46.55% Indels: 0
 DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-3 (1-869)

Qy 8 PheileMetAlaLeulleAlaMetileArgAlaAspSerGlulLysArgHis 27
 Db 93 TTCATTATGGCTCTCATCTCTAGCCATGATTAGAGCTGATTCATCGAAGAAACGTCAC 152

Qy 28 ArgLysArgLysLysHisHis 34
 Db 153 AGGAAACGGAAAAAACATCAT 173

RESULT 8

US-10-079-754A-5
 ; Sequence 5, Application US/10079754A
 ; Publication No. US20020164625A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Glenn, Matthew
 ; APPLICANT: Grigor, Murray R.
 ; APPLICANT: Molenaar, Adrian J.
 ; APPLICANT: Davis, Stephen R.
 ; TITLE OF INVENTION: Compositions Isolated from Bovine
 ; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
 ; FILE REFERENCE: 11000.1068
 ; CURRENT APPLICATION NUMBER: US/10/079,754A
 ; CURRENT FILING DATE: 2002-02-19
 ; PRIOR APPLICATION NUMBER: US 09/699,146
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US 60,162,701
 ; PRIOR FILING DATE: 1999-10-29
 ; PRIOR APPLICATION NUMBER: US 09/644,190
 ; PRIOR FILING DATE: 2000-08-22
 ; PRIOR APPLICATION NUMBER: US 60,150,330
 ; PRIOR FILING DATE: 1999-08-23
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 96
 ; TYPE: DNA
 ; ORGANISM: Bovine
 US-10-079-754A-5

Alignment Scores:
 Pred. No.: 0.00193 Length: 96
 Score: 11.00 Matches: 11
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 18.97% Indels: 0
 DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-5 (1-96)

Qy 46 ArgTyrProLeuAsnTyrProProAlaTyrPro 56
 Db 25 CGATATCCACTAAATATATCTCTCGGTATCCA 57

RESULT 9

US-09-812-350-48/C
 ; Sequence 48, Application US/09812350
 ; Publication No. US20020053097A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lindquist, Susan
 ; APPLICANT: Queitsch, Christine
 ; APPLICANT: Vierling, Elizabeth
 ; TITLE OF INVENTION: Transgenic Plants Containing Heat Shock Protein
 ; FILE REFERENCE: P01979US2
 ; CURRENT APPLICATION NUMBER: US/09/812,350
 ; CURRENT FILING DATE: 2001-03-20
 ; PRIOR APPLICATION NUMBER: US 60/190,769
 ; PRIOR FILING DATE: 2000-03-20
 ; PRIOR APPLICATION NUMBER: US 60/198,116
 ; PRIOR FILING DATE: 2000-04-18
 ; NUMBER OF SEQ ID NOS: 49
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 48
 ; LENGTH: 7726
 ; TYPE: DNA
 ; ORGANISM: Leishmania donovani
 US-09-812-350-48

Alignment Scores:
 Pred. No.: 18.6 Length: 7726
 Score: 9.00 Matches: 9
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 15.52% Indels: 0
 DB: 13 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-812-350-48 (1-7726)

Qy 25 LysArgHisArgLysArgLysHis 33

Db 6106 AAACGGCACAGAAAAAGAAAGAAACAT 6080

RESULT 10

US-09-918-995-8815
 ; Sequence 8815, Application US/09918995
 ; Publication No. US20030073623A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hyseq, Inc.
 ; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
 ; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
 ; FILE REFERENCE: 20411-756
 ; CURRENT APPLICATION NUMBER: US/09/918,995
 ; CURRENT FILING DATE: 2001-07-30
 ; PRIOR APPLICATION NUMBER: US/09/235,076
 ; PRIOR FILING DATE: 1999-01-20
 ; NUMBER OF SEQ ID NOS: 38054
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 8815
 ; LENGTH: 181
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)...(181)
 ; OTHER INFORMATION: n = A,T,C or G
 US-09-918-995-8815

Alignment Scores:
 Pred. No.: 6.18 Length: 181
 Score: 8.00 Matches: 8
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 13.73% Indels: 0

DB: 10 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-918-995-8815 (1-181)

Qy 10 MetAlaLeuIleLeuAlaMetIle 17

Db 92 ATGGCTTTGATTGGCGATGATC 115

RESULT 11

US-10-424-599-92870/c
; Sequence 92870, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 92870
; LENGTH: 339
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_54877C.1
US-10-424-599-92870

Alignment Scores:
Pred. No.: 11.3 Length: 339
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 13.79% Indels: 0
DB: 13 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-424-599-92870 (1-339)

Qy 16 MetIleArgAlaAspSerSerGlu 23

Db 225 ATGATCCGGCAGACTCGAGTGCAG 202

RESULT 12

US-09-918-995-8225
; Sequence 8225, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8225
; LENGTH: 390
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-918-995-8225

Alignment Scores:
Pred. No.: 12.9 Length: 390
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 13.79% Indels: 0
DB: 10 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-918-995-8225 (1-390)

Qy 10 MetAlaLeuIleLeuAlaMetIle 17

Db 137 ATGGCTTTGATTGGCGATGATC 160

RESULT 13

US-09-918-995-8118
; Sequence 8118, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8118
; LENGTH: 464
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(464)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-8118

Alignment Scores:
Pred. No.: 15.2 Length: 464
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 13.79% Indels: 0
DB: 10 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-918-995-8118 (1-464)

Qy 10 MetAlaLeuIleLeuAlaMetIle 17

Db 254 ATGGCTTTGATTGGCGATGATC 277

RESULT 14

US-10-198-846-5963/c
; Sequence 5963, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5963
; LENGTH: 870
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 26, 412, 496, 541, 543, 646, 649, 653, 711, 730, 742, 764,
; LOCATION: 768, 779, 781, 785, 795, 800, 804, 809, 811, 821, 823, 829,

; LOCATION: 830, 832, 839, 851, 853, 868, 870
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-5963

Alignment Scores:
Pred. No.: 27.8 Length: 870
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 13.79% Indels: 0
DB: 15 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-198-846-5963 (1-870)

Oy 10 MetAlaLeuIleLeuAlaMetIle 17
Db 121 ATGGCTTTGATTGGCGATGATC 98

RESULT 15

US-10-425-114-31277
; Sequence 31277, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 31277
; LENGTH: 1485
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73150C02_FLI
US-10-425-114-31277

Alignment Scores:
Pred. No.: 46.3 Length: 1485
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 13.79% Indels: 0
DB: 13 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-425-114-31277 (1-1485)

Oy 51 TyrProAlaTyrProPhePro 58
Db 252 TATGCTCTGCATATCCATTTCCT 275

Search completed: April 20, 2004, 07:00:02
Job time : 347 secs

OM protein - protein search, using sw model

Run on: April 19, 2004, 15:33:25 ; Search time 23 Seconds
(without alignments)
130.187 Million cell updates/sec

Title: US-10-079-754A-10
Perfect score: 316
Sequence: 1 MKIFIFVFTMALILAMIRAD.....QQYQYQRYPLNYPAYPPF 58

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/prodata/2/iaa/5A-COMB.pep: *
2: /cgn2_6/prodata/2/iaa/5B-COMB.pep: *
3: /cgn2_6/prodata/2/iaa/6A-COMB.pep: *
4: /cgn2_6/prodata/2/iaa/6B-COMB.pep: *
5: /cgn2_6/prodata/2/iaa/PCTUS-COMB.pep: *
6: /cgn2_6/prodata/2/iaa/backfiles1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	63	19.9	182	1	US-07-962-569A-8
2	63	19.9	182	1	US-08-883-2
3	63	19.9	182	1	US-08-730-163-2
4	63	19.9	182	3	US-08-256-799-2
5	63	19.9	182	3	US-08-462-437-2
6	63	19.9	182	3	US-08-462-437-31
7	62	19.6	248	4	US-09-252-991A-27856
8	61.5	19.5	729	4	US-09-625-188-20
9	61	19.3	620	4	US-09-134-000C-4463
10	59.5	18.8	271	4	US-09-252-991A-16848
11	59	18.7	225	4	US-09-252-991A-27348
12	59	18.7	720	4	US-09-252-991A-21881
13	58.5	18.5	247	4	US-09-252-991A-27419
14	58.5	18.5	333	4	US-09-252-991A-20994
15	58	18.4	521	4	US-09-252-991A-30311
16	58	18.4	585	4	US-09-196-270-4
17	57.5	18.2	404	3	US-09-046-578-2
18	56.5	17.9	997	4	US-09-252-991A-30799
19	56.5	17.9	1290	3	US-09-150-460B-6
20	56.5	17.9	1619	4	US-09-392-812A-4
21	56	17.7	137	4	US-09-247-155-109
22	56	17.7	155	4	US-09-148-545-164
23	56	17.7	155	4	US-09-148-545-225
24	56	17.7	172	4	US-09-489-039A-12246
25	56	17.7	279	4	US-09-252-991A-32443
26	56	17.7	281	2	US-08-284-465-6
27	56	17.7	413	4	US-09-489-039A-9137

28	56	17.7	699	4	US-09-759-359A-2	Sequence 2, Appli
29	55.5	17.6	302	4	US-09-252-991A-24042	Sequence 24042, A
30	55.5	17.6	464	4	US-09-252-991A-29449	Sequence 29449, A
31	55	17.4	140	4	US-09-252-991A-19832	Sequence 19832, A
32	55	17.4	302	4	US-09-252-991A-30139	Sequence 30139, A
33	55	17.4	471	3	US-08-866-928B-1	Sequence 1, Appli
34	55	17.4	471	4	US-09-685-836-1	Sequence 1, Appli
35	55	17.4	643	4	US-09-252-991A-17181	Sequence 17181, A
36	55	17.4	703	4	US-09-252-991A-18391	Sequence 18391, A
37	54.5	17.2	231	4	US-09-134-001C-3597	Sequence 3597, Ap
38	54.5	17.2	393	4	US-09-252-991A-23488	Sequence 23488, A
39	54.5	17.2	420	4	US-09-252-991A-27610	Sequence 27610, A
40	54	17.1	282	4	US-09-252-991A-20859	Sequence 20859, A
41	54	17.1	286	4	US-09-252-991A-29952	Sequence 29952, A
42	54	17.1	295	4	US-09-252-991A-32293	Sequence 32293, A
43	54	17.1	403	4	US-09-252-991A-29075	Sequence 29075, A
44	54	17.1	431	4	US-09-549-848B-6	Sequence 6, Appli
45	54	17.1	477	1	US-08-453-956-25	Sequence 25, Appli

ALIGNMENTS

RESULT 1
US-07-962-569A-8
; Sequence 8, Application US/07962569A
; Patent No. 5391497
; GENERAL INFORMATION:
; APPLICANT: MENON, RAVI S.
; APPLICANT: JEFFERS, KATHLEEN F.
; APPLICANT: CHANG, YING-FON
; APPLICANT: HAM, RICHARD G.
; TITLE OF INVENTION: HUMAN K-CASEIN
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FREDERICK W. PEPPER, PH.D.
; STREET: 11545 W. BERNARDO COURT, STE. 302
; CITY: SAN DIEGO
; STATE: CA
; COUNTRY: USA
; ZIP: 92127
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/962,569A
; FILING DATE: 19921013
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: PEPPER PH.D., FREDERICK W.
; REGISTRATION NUMBER: 31,286
; REFERENCE/DOCKET NUMBER: 920224.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 451-1120
; TELEFAX: (619) 451-9628
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 182 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-962-569A-8

Query Match 19.9%; Score 63; DB 1; Length 182;
Best Local Similarity 28.8%; Fred. No. 2.3;
Matches 17; Conservative 13; Mismatches 25; Indels 4; Gaps 3;

QY 1 MKIFIFVF-ITMALILAMIRADSEEEKRHRKXKHHRGYFOQYQYQRYPLNY-PPAYPP 57
DB 1 MKSFLVNNALATLPLAVEVQKQKQKCHENDERPFYKTAQY--VPMYYVNSY 57

RESULT 2
 US-08-308-883-2
 / Sequence 2, Application US/08308883
 / Patent No. 5576300
 / GENERAL INFORMATION:
 / APPLICANT: Mukerji, P.
 / APPLICANT: Prieto, P. A.
 / APPLICANT: Sec, A. E.-V.
 / APPLICANT: Baxter, J. H.
 / APPLICANT: Cummings, R.D.
 / TITLE OF INVENTION: Method for Inhibition of Human Rotavirus Infection.
 / NUMBER OF SEQUENCES: 2
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Lonnie R. Drayer
 / ADDRESSEE: ROSS Products Division
 / ADDRESSEE: Abbott Laboratories
 / STREET: 625 Cleveland Avenue
 / CITY: Columbus
 / STATE: Ohio
 / COUNTRY: United States
 / ZIP: 43215
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: 3.5 inch, 1.44 Mb storage
 / COMPUTER: Apple Macintosh
 / OPERATING SYSTEM: Macintosh System 7.1
 / SOFTWARE: ClarisWorks 1.0
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/308,883
 / FILING DATE: 16-SEP-1994
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA: No.. 5576300 applicable
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (614) 624-3774
 / TELEFAX: (614) 624-3074
 / TELEX: NO. 5576300e
 / INFORMATION FOR SEQ ID NO: 2:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 182 amino acids
 / TYPE: Amino acid
 / STRANDEDNESS:
 / TOPOLOGY: Linear
 / MOLECULE TYPE: Protein.
 / DESCRIPTION:
 / HYPOTHETICAL:
 / ANTI-SENSE:
 / FRAGMENT TYPE:
 / ORIGINAL SOURCE:
 / ORGANISM:
 / STRAIN:
 / INDIVIDUAL ISOLATE:
 / DEVELOPMENTAL STAGE:
 / HAPLOTYPE:
 / TISSUE TYPE:
 / CELL TYPE:
 / CELL LINE:
 / ORGANELLE:
 / IMMEDIATE SOURCE:
 / LIBRARY:
 / CLONE:
 / POSITION IN GENOME:
 / CHROMOSOME/SEGMENT:
 / MAP POSITION:
 / UNITS:
 / FEATURE:
 / NAME/KEY:
 / LOCATION:
 / IDENTIFICATION METHOD:
 / OTHER INFORMATION:
 / PUBLICATION INFORMATION:
 / AUTHORS: L. Hansson et al
 / TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use The
 / JOURNAL:


```

; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21881
; LENGTH: 720
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-21881

Query Match      18.7%; Score 59; DB 4; Length 720;
Best Local Similarity 29.8%; Pred. NO. 32;
Matches 14; Conservative 8; Mismatches 15; Indels 10; Gaps 1;

Qy      18 RADSSSEKHKRKKKH-----RCYFOQYQYQYPLNYPPA 54
      |||:||||:||||:||||:||||:||||:||||:||||:
Db      325 RAGQQFRRHRQQRHHPGRRPAGRPAGTGTGQRPARKQRPAP 371

RESULT 13
US-09-252-991A-27419
; Sequence 27419, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 27419
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-27419

Query Match      18.5%; Score 58.5; DB 4; Length 247;
Best Local Similarity 39.4%; Pred. NO. 11;
Matches 13; Conservative 6; Mismatches 11; Indels 3; Gaps 1;

Qy      18 RADSSSEKHKRKKKHRCYFOQYQYQYQYPLN 50
      |||:||||:||||:||||:||||:||||:
Db      60 RRTDQGRHPRRLDHRHRQQPP---HPLN 89

RESULT 14
US-09-252-991A-20994
; Sequence 20994, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20994
; LENGTH: 333
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-20994

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[illegible]

Query Match 18.5%; Score 58.5; DB 4; Length 333;
Best Local Similarity 38.7%; Pred. No. 16;
Matches 12; Conservative 5; Mismatches 11; Indels 3; Gaps 1;
QY 25 KHRK--KHHRGYFQQYQYQYPLNYP 52
Db 114 RHHRPDQTHHGRRLQGLPVRLPADHP 144

RESULT 15
US-09-252-991A-30311
; Sequence 30311, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30311
; LENGTH: 521
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30311

Query Match 18.4%; Score 58; DB 4; Length 521;
Best Local Similarity 36.7%; Pred. No. 30;
Matches 18; Conservative 6; Mismatches 21; Indels 4; Gaps 2;
QY 12 LILAMIRADSSE--EKRRKRRKKHRRGYFQQYQYQYPLNYPYPPFP 58
Db 45 LIRRTAAQGVIEVHRRHRRLLHGHPLRRQLRQ--RHRPAHQR 91

Search completed: April 19, 2004, 15:39:07
Job time : 24 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 19, 2004, 15:37:41 ; Search time 41 Seconds
(without alignments)
389.977 Million cell updates/sec

Title: US-10-079-754A-10
Perfect score: 316
Sequence: 1 MKIFIFVFMALILAMIRAD.....QQYQYQRYPLNYPAYPPF 58

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
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6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	316	100.0	58	13	US-10-079-754A-7
2	316	100.0	58	13	US-10-079-754A-10
3	315	99.7	58	13	US-10-079-754A-8
4	170	53.8	59	13	US-10-079-754A-12
5	169	53.5	70	13	US-10-079-754A-9
6	112	35.4	21	13	US-10-079-754A-11
7	110	34.8	62	12	US-10-210-172-168
8	95	30.1	51	9	US-09-917-340-19
9	94.5	29.9	78	10	US-09-992-600A-6
10	94.5	29.9	78	10	US-09-924-340-6
11	94.5	29.9	78	10	US-09-992-095B-6
12	94.5	29.9	78	10	US-09-999-570-6
13	94.5	29.9	78	14	US-10-000-489-6
14	94.5	29.9	78	14	US-10-000-986-6
15	94.5	29.9	78	14	US-10-154-678-6

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16 69 21.8 229 12 US-10-282-122A-71761 Sequence 71761, A
17 65 20.6 1504 15 US-10-374-780A-1457 Sequence 1457, Ap
18 65 20.6 1562 15 US-10-374-780A-1458 Sequence 1458, Ap
19 65 20.6 1562 15 US-10-374-780A-1459 Sequence 1459, Ap
20 63 19.9 103 12 US-10-154-671-33 Sequence 33, Appl
21 63 19.9 103 14 US-10-143-077-33 Sequence 33, Appl
22 63 19.9 182 15 US-10-190-115-50 Sequence 50, Appl
23 63 19.9 182 15 US-10-190-115-51 Sequence 51, Appl
24 63 19.9 182 15 US-10-190-115-52 Sequence 52, Appl
25 63 19.9 182 15 US-10-369-072-50 Sequence 50, Appl
26 63 19.9 182 15 US-10-369-072-51 Sequence 51, Appl
27 63 19.9 182 15 US-10-369-072-52 Sequence 52, Appl
28 63 19.9 407 12 US-10-425-114-53366 Sequence 53366, A
29 63 19.9 483 12 US-10-425-114-56614 Sequence 56614, A
30 62 19.6 54 11 US-09-864-408A-2332 Sequence 2332, Ap
31 62 19.6 317 12 US-10-424-593-152483 Sequence 152483,
32 61.5 19.5 111 12 US-10-424-593-152484 Sequence 152484,
33 61.5 19.5 1390 12 US-10-092-900A-224 Sequence 224, App
34 61 19.3 260 12 US-10-424-593-228404 Sequence 228404,
35 60.5 19.1 141 12 US-10-424-593-151674 Sequence 151674,
36 60.5 19.1 504 8 US-08-980-068B-21 Sequence 21, Appl
37 60 19.0 255 15 US-10-104-047-3876 Sequence 3876, Ap
38 60 19.0 684 12 US-10-425-114-66859 Sequence 66859, A
39 59.5 18.8 179 12 US-10-424-593-218681 Sequence 218681,
40 59.5 18.8 183 12 US-10-424-593-218680 Sequence 218680,
41 58.5 18.5 299 12 US-10-425-114-53486 Sequence 53486, A
42 58.5 18.5 299 12 US-10-425-114-72077 Sequence 72077, A
43 58 18.4 47 12 US-10-210-172-170 Sequence 170, App
44 58 18.4 153 12 US-10-424-593-159963 Sequence 159963,
45 58 18.4 205 10 US-09-949-023-76 Sequence 76, Appl

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ALIGNMENTS

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RESULT 1
US-10-079-754A-7
; Sequence 7, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-7

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```

Query Match 100.0%; Score 316; DB 13; Length 58;
Best Local Similarity 100.0%; Pred. No. 4.8e-30; Indels 0; Gaps 0;
Matches 58; Conservative 0; Mismatches 0;
Qy 1 MKIFIFVFMALILAMIRADSSSEKRRKRGYFOQYQRYPLNYPAYPPF 58
Db 1 MKIFIFVFMALILAMIRADSSSEKRRKRGYFOQYQRYPLNYPAYPPF 58

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RESULT 2
US-10-079-754A-10
; Sequence 10, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-10

Query Match 100.0%; Score 316; DB 13; Length 58;
Best Local Similarity 100.0%; Pred. No. 4.8e-30;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIFIFVFMALILAMIRADSSSEKRRKKKHHRGVFOQYQYQYPLNPPAYPPF 58
Db 1 MKIFIFVFMALILAMIRADSSSEKRRKKKHHRGVFOQYQYQYPLNPPAYPPF 58

RESULT 3
US-10-079-754A-8
; Sequence 8, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-8

Query Match 99.7%; Score 315; DB 13; Length 58;
Best Local Similarity 98.3%; Pred. No. 6.4e-30;
Matches 57; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIFIFVFMALILAMIRADSSSEKRRKKKHHRGVFOQYQYQYPLNPPAYPPF 58
Db 1 MKIFIFVFMALILAMIRADSSSEKRRKKKHHRGVFOQYQYQYPLNPPAYPPF 58

RESULT 4
US-10-079-754A-12
; Sequence 12, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-12

Query Match 53.8%; Score 170; DB 13; Length 59;
Best Local Similarity 100.0%; Pred. No. 9.2e-13;
Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIFIFVFMALILAMIRADSSSEKRRKKKHH 34
Db 1 MKIFIFVFMALILAMIRADSSSEKRRKKKHH 34

RESULT 5
US-10-079-754A-9
; Sequence 9, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Bovine

US-10-079-754A-9

Query Match 53.5%; Score 169; DB 13; Length 70;
Best Local Similarity 97.1%; Pred. No. 1.4e-12;
Matches 33; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKIFIFVFMALILAMIRADSSSEKRRKKKH 34

Db 1 MKIFIFVFMALILAMIRADSSSEKRRKKKH 34

RESULT 6

US-10-079-754A-11

; Sequence 11, Application US/10079754A

; Publication No. US20020164625A1

; GENERAL INFORMATION:

; APPLICANT: Glenn, Matthew

; APPLICANT: Grigor, Murray R.

; APPLICANT: Molenaar, Adrian J.

; TITLE OF INVENTION: Compositions Isolated from Bovine

; TITLE OF INVENTION: Mammary Gland and Methods for Their Use

; FILE REFERENCE: 11000.1068

; CURRENT APPLICATION NUMBER: US/10/079,754A

; PRIOR FILING DATE: 2002-02-19

; PRIOR APPLICATION NUMBER: US 09/699,146

; PRIOR FILING DATE: 2000-10-27

; PRIOR APPLICATION NUMBER: US 60,162,701

; PRIOR FILING DATE: 1999-10-29

; PRIOR APPLICATION NUMBER: US 09/644,190

; PRIOR FILING DATE: 2000-08-22

; PRIOR APPLICATION NUMBER: US 60,150,330

; PRIOR FILING DATE: 1999-08-23

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 21

; TYPE: PRT

; ORGANISM: Bovine

US-10-079-754A-11

Query Match 35.4%; Score 112; DB 13; Length 21;

Best Local Similarity 94.7%; Pred. No. 2.2e-06;

Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 38 FQOQPYQRYPLNYPAYP 56

Db 1 FQOQPYQRYPLNYPAYP 19

RESULT 7

US-10-210-172-168

; Sequence 168, Application US/10210172

; Publication No. US20040043928A1

; GENERAL INFORMATION:

; APPLICANT: Kekuda, Ramesh

; APPLICANT: Miller, Charles

; APPLICANT: Patturajan, Meera

; APPLICANT: Pena, Carol

; APPLICANT: Rieger, Daniel

; APPLICANT: Shinkets, Richard

; APPLICANT: Zerhusen, Bryan

; APPLICANT: Li, Li

; APPLICANT: Ji, Weizhen

; APPLICANT: Padigaru, Muralidhara

; APPLICANT: Casman, Stacie

; APPLICANT: Voss, Edward

; APPLICANT: Boldog, Ferenc

; APPLICANT: Gorman, Linda

; APPLICANT: Leite, Mario

; APPLICANT: Vernet, Corine

; APPLICANT: Anderson, David

; APPLICANT: Guo, Xiaojia

; APPLICANT: Zhong, Mei

; APPLICANT: Gerlach, Valerie

; APPLICANT: Hjalt, Tord

; APPLICANT: Rastelli, Luca

; APPLICANT: Spytak, Kimberly

; APPLICANT: Edinger, Shlomit

; APPLICANT: Ellerman, Karen

; APPLICANT: Malyankar, Uriel

; APPLICANT: MacDougall, John

; APPLICANT: Stone, David

; APPLICANT: Alsobrook II, John

; APPLICANT: Lepley, Denise et al.

; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD

; FILE REFERENCE: 21402-416 A

; CURRENT APPLICATION NUMBER: US/10/210,172

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/309,501

; PRIOR FILING DATE: 2001-08-02

; PRIOR APPLICATION NUMBER: 60/323,994

; PRIOR FILING DATE: 2001-09-21

; PRIOR APPLICATION NUMBER: 60/373,814

; PRIOR FILING DATE: 2002-04-19

; PRIOR APPLICATION NUMBER: 60/310,291

; PRIOR FILING DATE: 2001-08-03

; PRIOR APPLICATION NUMBER: 60/310,951

; PRIOR FILING DATE: 2001-08-08

; PRIOR APPLICATION NUMBER: 60/310,544

; PRIOR FILING DATE: 2001-08-07

; PRIOR APPLICATION NUMBER: 60/311,292

; PRIOR FILING DATE: 2001-08-09

; PRIOR APPLICATION NUMBER: 60/311,979

; PRIOR FILING DATE: 2001-08-13

; PRIOR APPLICATION NUMBER: 60/313,201

; PRIOR FILING DATE: 2001-08-17

; PRIOR APPLICATION NUMBER: 60/312,892

; PRIOR FILING DATE: 2001-08-16

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 327

; SOFTWARE: CuraSeqList version 0.1

; SEQ ID NO 168

; LENGTH: 62

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-210-172-168

Query Match 34.8%; Score 110; DB 12; Length 62;

Best Local Similarity 49.1%; Pred. No. 1.2e-05;

Matches 27; Conservative 7; Mismatches 19; Indels 2; Gaps 2;

Qy 1 MKIFIFVFMALILAMIRADSSSEKRRKKKHRRGYFQOQPYQRYPLNYPAY 55

Db 1 MKFLVFAFIALMVMISGADSSSEKFLRRIGRFGYGY-GPYQPVPEQPL-YPOPY 53

RESULT 8

US-09-917-340-19

; Sequence 19, Application US/09917340

; Patent No. US20020090369A1

; GENERAL INFORMATION:

; APPLICANT: Murphy, Christopher J.

; APPLICANT: McAnulty, Jonathan F.

; APPLICANT: Reid, Ted W.

; TITLE OF INVENTION: Transplant Media

; FILE REFERENCE: TPLANT-06468

; CURRENT APPLICATION NUMBER: US/09/917,340

; CURRENT FILING DATE: 2001-07-29

; PRIOR APPLICATION NUMBER: 60/221,632

; PRIOR FILING DATE: 2000-07-28

; PRIOR APPLICATION NUMBER: 60/249,602

; PRIOR FILING DATE: 2000-11-17

; PRIOR APPLICATION NUMBER: 60/290,932

; PRIOR FILING DATE: 2001-05-15

; NUMBER OF SEQ ID NOS: 96

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-917-340-19      2; Gaps
Query Match          30.1%; Score 95; DB 9; Length 51;
Best Local Similarity 46.8%; Pred.No. 0.00058;
Matches 22; Conservative 6; Mismatches 13; Indels 6; Gaps
2;

QY    1 MKKIFVFVFMALILAMIRADSSEKKH-RKRKKH-----HRGYFOCY 41
DB    1 MKFFVPFALIALMLSMTGADSHAKRHGHGKRRKFHEKHSHRGYSNY 47

RESULT 9
US-09-924-600A-6
; Sequence 6, Application US/09992600A
; Publication No. US20030027161A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephanie
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US4.DIV
; CURRENT APPLICATION NUMBER: US/09/992,600A
; CURRENT FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-09-992-600A-6

Query Match          29.9%; Score 94.5; DB 10; Length 78;
Best Local Similarity 32.7%; Pred.No. 0.0011;
Matches 18; Conservative 13; Mismatches 17; Indels 7; Gaps
1;

QY    1 MKKIFVFVFMALILAMIRADSSEKKRHKRKHHRGYFOCYQRYPLNPPAY 55
DB    1 MKFFVFALVALMISMSIADSHKRRHGHGKRRKF-----EKHSYHTLLPLF 48

RESULT 10
US-09-924-340-6
; Sequence 6, Application US/09924340
; Publication No. US20030027248A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephanie
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US2.REG
; CURRENT APPLICATION NUMBER: US/09/924,340
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
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; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: G-091US08DIV
; CURRENT APPLICATION NUMBER: US/09/999,570
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-09-999-570-6
29.9%; Score 94.5; DB 10; Length 78;
Best Local Similarity 32.7%; Pred. No. 0.0011;
Matches 18; Conservative 13; Mismatches 17; Indels 7; Gaps 1;

QY 1 MKIFIFVFMALIMIRADSSEKKRKRKKGHRGYYFOQYQYQYPLNYPAY 55
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MKFFVFLVLMISMISADSSEKRRHGYRKRKF-----EKHSYHITLLPLF 48

RESULT 13
US-10-000-489-6
; Sequence 6, Application US/10000489
; Publication No. US20030092011A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US6.DIV
; CURRENT APPLICATION NUMBER: US/10/000,489
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-10-000-489-6
29.9%; Score 94.5; DB 14; Length 78;
Query Match
Best Local Similarity 32.7%; Pred. No. 0.0011;
Matches 18; Conservative 13; Mismatches 17; Indels 7; Gaps 1;

QY 1 MKIFIFVFMALIMIRADSSEKKRKRKKGHRGYYFOQYQYQYPLNYPAY 55
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MKFFVFLVLMISMISADSSEKRRHGYRKRKF-----EKHSYHITLLPLF 48

RESULT 14
US-10-000-986-6
; Sequence 6, Application US/10000986
; Publication No. US20030096247A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US9.DIV
; CURRENT APPLICATION NUMBER: US/10/000,986
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-10-000-986-6
29.9%; Score 94.5; DB 14; Length 78;
Query Match
Best Local Similarity 32.7%; Pred. No. 0.0011;
Matches 18; Conservative 13; Mismatches 17; Indels 7; Gaps 1;

QY 1 MKIFIFVFMALIMIRADSSEKKRKRKKGHRGYYFOQYQYQYPLNYPAY 55
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MKFFVFLVLMISMISADSSEKRRHGYRKRKF-----EKHSYHITLLPLF 48

RESULT 15
US-10-154-678-6
; Sequence 6, Application US/10154678
; Publication No. US20030162186A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 182.US1.REG
; CURRENT APPLICATION NUMBER: US/10/154,678
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-10-000-489-6
29.9%; Score 94.5; DB 14; Length 78;
Query Match
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; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -19...-1
US-10-154-678-6

Query Match      29.9%; Score 94.5; DB 14; Length 78;
Best Local Similarity 32.7%; Pred. NO. 0.0011;
Matches 18; Conservative 13; Mismatches 17; Indels 7; Gaps 1;
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Search completed: April 19, 2004, 15:43:44
Job time : 42 secs

Db 2326 GTCTCGTCATCTCTTCTTCATCTCCATCCCATCTCGTCTCTCGTCTCGTCTGACTC 2267
Qy 22 rgluGlu-LysArgHisArgLysArgLysLysHis---HisArgGlyTyrPheGlnGlnT 41
Db 2266 AGAGGAGTCCGCCCATCTTCAGAGGAGTCCCATCTTCATCTCTCTCTTCTCATC 2207
Qy 41 yrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrPro 56
Db 2206 CTGCTCGTCATCGGACTCG 2160

RESULT 2
US-09-023-655-816/c
; Sequence 816, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: COCKS, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 816:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3164 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: MYOMOT01
; CLONE: 781552
; US-09-023-655-816

Alignment Scores:
Pred. No.: 8.79 Length: 3164
Score: 69.50 Matches: 20
Percent Similarity: 56.14% Conservative: 12
Best Local Similarity: 35.09% Mismatches: 22
Query Match: 21.99% Indels: 3
DB: 4 Gaps: 1

US-10-079-754A-10 (1-58) x US-09-023-655-816 (1-3164)

Qy 3 IlePheIlePheValPheIleMetAlaLeuIleValMetIleArgAlaAsp-SerSe 22
Db 1224 GTCTCGTCATCTGACTC 1165

Qy 22 rgluGlu-LysArgHisArgLysArgLysLysHis---HisArgGlyTyrPheGlnGlnT 41
Db 1164 AGAGGAGTCCGCCCATCTTCAGAGGAGTCCCATCTTCATCTCTCTCTTCTTCATC 1105
Qy 41 yrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrPro 56
Db 1104 CTGCTCGTCATCGGACTCG 1058

RESULT 3
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Alignment Scores:
Pred. No.: 5.06e+05 Length: 4403765
Score: 66.00 Matches: 10
Percent Similarity: 58.06% Conservative: 8
Best Local Similarity: 32.26% Mismatches: 13
Query Match: 20.89% Indels: 0
DB: 3 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-103-840A-2 (1-4403765)

Qy 18 ArgAlaAspSerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyr 37
Db 1189176 CGTTGCCATACAGACGCCACCACCCACCGCGCGCGCGCGCGCGCGCGCG 1189235

Qy 38 PheGlnGlnTyrGlnProTyrGlnArgTyrPro 48
Db 1189236 CACCACCCGTACACCCCTTACCGCGGTGGCCA 1189268

RESULT 4
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37RV

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US-09-103-840A-1

Alignment Scores:
Pred. No.:      5.07e+05      Length:      4411529
Score:          66.00         Matches:      10
Percent Similarity: 58.06%     Conservative: 8
Best Local Similarity: 32.26%  Mismatches:   13
Query Match:      20.89%     Indels:      0
DB:              3           Gaps:         0

US-10-079-754A-10 (1-58) x US-09-103-840A-1 (1-4411529)
Qy  18 ArgAlaaspSerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyr 37
Db  1189150 CGTGGCATACAGCAGCCACCGCCACCACCGCGCGCGCGCGCGCGCGCGCG 1189200

Qy  38 PheGlnGlnTyrGlnProTyrGlnArgTyrPro 48
Db  1189210 CACCACCGGTACCACCCCTTACCAGCGGTGGCCA 1189242

RESULT 5
US-09-387-574-9
; Sequence 9, Application US/09387574
; Patent No. 6168951
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Kinney, Tony
; APPLICANT: Rafalski, Antoni
; TITLE OF INVENTION: Plant Geranylgeranyl Transferases
; FILE REFERENCE: BB-1239
; CURRENT APPLICATION NUMBER: US/09/387,574
; CURRENT FILING DATE: 1999-08-31
; EARLIER APPLICATION NUMBER: 60/098,743
; EARLIER FILING DATE: September 1, 1998
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 9
; LENGTH: 2335
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-387-574-9

Alignment Scores:
Pred. No.:      24.7         Length:      2335
Score:          65.00         Matches:      21
Percent Similarity: 34.15%     Conservative: 7
Best Local Similarity: 25.61%  Mismatches:   20
Query Match:      20.57%     Indels:      34
DB:              3           Gaps:         3

US-10-079-754A-10 (1-58) x US-09-387-574-9 (1-2335)
Qy  10 MetAlaLeuIleLeuAlaMetIleArgAlaAaspSerSerGluGluLysArgHisArgLys 29
Db  114 TTACGACTGATCCGAGCGGCTTTTTCGGCGGATCATGCGGACGCGCCGCGCCGCGG 173

Qy  30 Arg-----LysLysHisHisArgGlyTyrPhe----- 38
Db  174 CGGATTCCCGCGCAGGACT*ACCCACCATGACATGACCCACCTCGTTCGACGTGGTCTCTG 233

Qy  38 ----- 38
Db  234 CGGCACCGGCTCCCGGAGTCCGCTCTTGGCGCGCGCTTGGCGCGCGCGCGGAGACGGT 293

Qy  39 -----GlnGlnTyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrPro 56
Db  294 CCTCCAGTTCGACCCCAACCGTTTCTACGGGTCCCTCTTCTCTCCCTCCCTCTCT---CCC 350

Qy  57 PhePro 58
Db  351 TTCCCT 356

RESULT 6

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; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/592,214A
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-UD 1927
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4379 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 2095..2098
; OTHER INFORMATION: /note= "N = one or more
; OTHER INFORMATION: thaliana Ap1 gene"
;
US-08-592-214A-17

Alignment Scores:
Pred. No.: 81.6 Length: 4379
Score: 64.00 Matches: 19
Percent Similarity: 55.74% Conservative: 15
Best Local Similarity: 31.15% Mismatches: 20
Query Match: 20.25% Indels: 8
DB: 1 Gaps: 2

US-10-079-754A-10 (1-58) x US-08-592-214A-17 (1-4379)
QY 1 MetLysllePheIlePheValPheIleMetAlaLeuIleLeuAlaMet----- 16
Db 1473 ATCAAAATGTTTATTTTCAATATTTTAAAG-TCCGCGAGTTTATTTAAATAATCATGGACCC 1531
QY 17 ---tleArgAlaAepSerSerGluGluLysArgHisArgLysLysLysHisArg 35
Db 1532 GACATTAGTACGAGATATACCAATGAGAGTTCGACGCAATCTTAAAGAACCACTGT 1591
QY 36 GlyTyrPheGlnGlnTyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyr 55
Db 1592 GGTTTTTCACAAACAGAGAACCACTGTAGCTTTTCCCTAAACACCAC-----TCTTAC 1645
QY 56 Pro 56
Db 1646 CCA 1648

RESULT 8
US-09-149-976-17
; Sequence 17, Application US/09149976
; Patent No. 6127123
; GENERAL INFORMATION:
; APPLICANT: Yanofsky, Martin F.
; TITLE OF INVENTION: Cauliflower Floral Meristem Identity
; TITLE OF INVENTION: Genes and Methods of Using Same
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92122
; COMPUTER READABLE FORM:
;

; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/592,214A
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-UD 1927
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4379 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 2095..2098
; OTHER INFORMATION: /note= "N = one or more
; OTHER INFORMATION: thaliana Ap1 gene"
;
US-08-592-214A-17

Alignment Scores:
Pred. No.: 81.6 Length: 4379
Score: 64.00 Matches: 19
Percent Similarity: 55.74% Conservative: 15
Best Local Similarity: 31.15% Mismatches: 20
Query Match: 20.25% Indels: 8
DB: 1 Gaps: 2

US-10-079-754A-10 (1-58) x US-09-149-976-17 (1-4379)
QY 1 MetLysllePheIlePheValPheIleMetAlaLeuIleLeuAlaMet----- 16
Db 1473 ATCAAAATGTTTATTTTCAATATTTTAAAG-TCCGCGAGTTTATTTAAATAATCATGGACCC 1531
QY 17 ---tleArgAlaAepSerSerGluGluLysArgHisArgLysLysLysHisArg 35
Db 1532 GACATTAGTACGAGATATACCAATGAGAGTTCGACGCAATCTTAAAGAACCACTGT 1591
QY 36 GlyTyrPheGlnGlnTyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyr 55
Db 1592 GGTTTTTCACAAACAGAGAACCACTGTAGCTTTTCCCTAAACACCAC-----TCTTAC 1645
QY 56 Pro 56
Db 1646 CCA 1648

RESULT 9
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TUBERCULOSIS
```

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FILE REFERENCE: 24366-20007.00
CURRENT APPLICATION NUMBER: US/09/103,840A
CURRENT FILING DATE: 1998-06-24
NUMBER OF SEQ ID NOS: 2
SOFTWARE: Patent in Ver. 2.1
SEQ ID NO 2
LENGTH: 4403765
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
FEATURE:
OTHER INFORMATION: CDC 1551
OTHER INFORMATION: "n" bases at various positions throughout the sequence
OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Alignment Scores:
Pred. No.: 8.8e+05 Length: 4403765
Score: 63.50 Matches: 17
Percent Similarity: 55.32% Conservative: 9
Best Local Similarity: 36.17% Mismatches: 15
Query Match: 20.09% Indels: 7
DB: 3 Gaps: 1

US-10-079-754A-10 (1-58) x US-09-103-840A-2 (1-4403765)

QY 18 ArgAlaAspSerGluGlnLysArgHisArgLysArgLysLysHisArgGlyTyr 37
Db 3771788 CGTGGCGGTTCGTGGCGGTACCGCGGCACCGCGGTGCGCGGTACCGCGGCACGGAAC 3771729
QY 38 PheGlnGlnTyrGlnProTyrGlnArgTyrPro-----LeuAsnTyr 51
Db 3771728 TACCGCGGACGGCGCTCCCGCGCGCG-CCGCGCGCACCGCATTCGCGCGCGGTCA 3771670
QY 52 ProProAlaTyrProPhePro 58
Db 3771669 CCGCGCGCGCGCGGTCCCG 3771649

RESULT 10
US-09-103-840A-1/c
Sequence 1, Application US/09103840A
Patent No. 6294328
GENERAL INFORMATION:
APPLICANT: WHITE, Owen R.
APPLICANT: FLEISCHMAN, Robert D.
APPLICANT: FRASER, Claire M.
APPLICANT: VENTER, John C.
TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
TITLE OF INVENTION: TUBERCULOSIS
FILE REFERENCE: 24366-20007.00
CURRENT APPLICATION NUMBER: US/09/103,840A
CURRENT FILING DATE: 1998-06-24
NUMBER OF SEQ ID NOS: 2
SOFTWARE: Patent in Ver. 2.1
SEQ ID NO 1
LENGTH: 4411529
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
OTHER INFORMATION: H37Rv
US-09-103-840A-1

Alignment Scores:
Pred. No.: 8.81e+05 Length: 4411529
Score: 63.50 Matches: 17
Percent Similarity: 55.32% Conservative: 9
Best Local Similarity: 36.17% Mismatches: 15
Query Match: 20.09% Indels: 7
DB: 3 Gaps: 1

US-10-079-754A-10 (1-58) x US-09-103-840A-1 (1-4411529)

QY 18 ArgAlaAspSerGluGlnLysArgHisArgLysArgLysLysHisArgGlyTyr 37
Db 3779614 CGTGGCGGTTCGTGGCGGTACCGCGGCACCGCGGTGCGCGGTACCGCGGCACGGAAC 3779555
```

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QY 38 PheGlnGlnTyrGlnProTyrGlnArgTyrPro-----LeuAsnTyr 51
Db 3779554 TACCGCGGACGGCGGTGCGCGCGCG-CCGCGCGCACCGCATTCGCGCGGTCA 3779496
QY 52 ProProAlaTyrProPhePro 58
Db 3779495 CCGCGCGCGCGCGGTTCGCG 3779475

RESULT 11
US-09-328-352-3819/c
Sequence 3819, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
FILE REFERENCE: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 3819
LENGTH: 426
TYPE: DNA
ORGANISM: Acinetobacter baumannii
US-09-328-352-3819

Alignment Scores:
Pred. No.: 4.43 Length: 426
Score: 63.00 Matches: 14
Percent Similarity: 51.92% Conservative: 13
Best Local Similarity: 26.92% Mismatches: 18
Query Match: 19.94% Indels: 7
DB: 4 Gaps: 1

US-10-079-754A-10 (1-58) x US-09-328-352-3819 (1-426)

QY 4 PheIlePheValPheIleMetAlaLeu-IleLeuAlaMetIleArgAlaAspSerSerg1 23
Db 254 TTCTTAAGCGTATTCTTGTGCTGTATTAAATTGCTCTTAATGCTGATAATCTTA 195
QY 23 uGluLysArgHisArgLysArg-----LysLysHisHisArgGlyTyr 37
Db 194 TTCAGGTCTGCATCAGCACTCGCATAGATTATTTGTTACAGTAAATATCATCATAAGTA 135
QY 37 rPheGlnGlnTyrGlnProTyrGlnArgTyrPro 48
Db 134 TTAGGACACTATACACAGTTATCAGATAGACCG 101

RESULT 12
US-09-359-301A-30
Sequence 30, Application US/09359301A
Patent No. 6426185
GENERAL INFORMATION:
APPLICANT: Kumagai, Monto H.
APPLICANT: della-Cioppa, Guy R.
APPLICANT: Erwin, Robert L.
APPLICANT: McGee, David R.
TITLE OF INVENTION: METHOD OF DETERMINING THE PRESENCE OF A
TITLE OF INVENTION: TRAIT IN A PLANT BY TRANSPECTING A NUCLEIC ACID SEQUENCE OF
TITLE OF INVENTION: A DONOR PLANT INTO A DIFFERENT HOST PLANT IN AN ANTI-SENSE
TITLE OF INVENTION: ORIENTATION
FILE REFERENCE: 008010137US04
CURRENT APPLICATION NUMBER: US/09/359,301A
CURRENT FILING DATE: 1999-07-21
NUMBER OF SEQ ID NOS: 42
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 30
LENGTH: 750
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-09-359-301A-30
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Alignment Scores:
Pred. No.: 9.72 Length: 750
Score: 63.00 Matches: 13
Percent Similarity: 58.33% Conservative: 1
Best Local Similarity: 54.17% Mismatches: 10
Query Match: 19.94% Indels: 0
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-359-301A-30 (1-750)

Qy 35 ArgGlyTyrPheGlnGlnProTyrGlnArgTyrProLeuAsnTyrProProAla 54
Db 199 CAGGATATCTCTCAACAGGTATCTCTCAGCAAGGATATCTCTCCACCGTACGGCGCTCAA 258

Qy 55 TyrProPhePro 58
Db 259 TATCTCTCCACCA 270

RESULT 13
US-08-308-883-1
; Sequence 1, Application US/08308883
; Patent No. 5576300
; GENERAL INFORMATION:
; APPLICANT: Mukerji, P.
; APPLICANT: Prieto, P. A.
; APPLICANT: Seo, A. E.-Y.
; APPLICANT: Baxter, J. H.
; APPLICANT: Cummings, R.D.
; TITLE OF INVENTION: Method for Inhibition of Human Rotavirus Infection.
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lonnie R. Drayer
; ADDRESSEE: ROSS Products Division
; ADDRESSEE: Abbott Laboratories
; STREET: 625 Cleveland Avenue
; CITY: Columbus
; STATE: Ohio
; COUNTRY: United States
; ZIP: 43215
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh System 7.1
; SOFTWARE: ClarisWorks 1.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/308,883
; FILING DATE: 16-SEP-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: No. 5576300 applicable
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (614) 624-3774
; TELEFAX: (614) 624-3074
; TELEX: No. 5576300e
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 857 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: cDNA
; DESCRIPTION: Human milk kappa-casein
; HYPOTHETICAL: No
; ANTI-SENSE:
; FRAGMENT TYPE: Human
; ORGANISM: Homo sapiens
; STRAIN:
; INDIVIDUAL ISOLATE:
; DEVELOPMENTAL STAGE: Adult
; HAPLOTYPE:
; TISSUE TYPE: Mammary gland
; CELL TYPE:
; CELL LINE:

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; ORGANELLE:
; IMMEDIATE SOURCE: Human Mammary Gland
; LIBRARY:
; CLONE:
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT:
; MAP POSITION:
; UNITS:
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 45...593
; IDENTIFICATION METHOD: DNA sequencing and restriction analysis
; OTHER INFORMATION: The encoded product of nucleotide SEQ ID NO: 1: is the hum
; PUBLIC INFORMATION:
; AUTHORS: L. Hansson et al
; TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use T
; JOURNAL:
; VOLUME:
; ISSUE:
; PAGES:
; DATE:
; DOCUMENT NUMBER: PCT/WO93/15196
; FILING DATE: 25-JAN-1993
; PUBLICATION DATE: 05-AUG-1993
; RELEVANT RESIDUES IN SEQ ID NO:
US-08-308-883-1
Alignment Scores:
Pred. No.: 11.7 Length: 857
Score: 63.00 Matches: 17
Percent Similarity: 50.85% Conservative: 13
Best Local Similarity: 28.81% Mismatches: 25
Query Match: 19.94% Indels: 4
DB: 1 Gaps: 3

US-10-079-754A-10 (1-58) x US-08-308-883-1 (1-857)

Qy 1 MetLysIlePheIlePheValPhe---IleMetAlaLeuIleLeuAlaMetIleArgAla 19
Db 45 ATGAAGAGATTTCCTCTAGTTGTCAATGCCCTGTCATTAAACCCGCTCTTTTGGCTGTG 104

Qy 20 AspSerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGln 39
Db 105 GAGGTTCAAAACACAGAACACACAGCAGCATGCCATGAGATGATGAAGACCATTCATCAG 164

Qy 40 GlnTyrGlnProTyrGlnArgTyrProLeuAsnTyr---ProProAlaTyrProPhe 57
Db 165 AAAACAGCTCCATAT-----GTCCCAATGTATTATGTGCCAAATAGCTATCCTTAT 215

RESULT 14
US-08-730-163-1
; Sequence 1, Application US/08730163
; Patent No. 5712250
; GENERAL INFORMATION:
; APPLICANT: Mukerji, P.
; APPLICANT: Prieto, P. A.
; APPLICANT: Seo, A. E.-Y.
; APPLICANT: Baxter, J. H.
; APPLICANT: Cummings, R.D.
; TITLE OF INVENTION: Product for Inhibition of Human Rotavirus Infection.
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lonnie R. Drayer
; ADDRESSEE: ROSS Products Division
; ADDRESSEE: Abbott Laboratories
; STREET: 625 Cleveland Avenue
; CITY: Columbus
; STATE: Ohio
; COUNTRY: United States
; ZIP: 43215
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb storage (B)COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh System 7.1(D)SOFTWARE: ClarisWorks 1.0

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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/730,163
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/308,882
FILING DATE: 16-SEP-1994
TELEPHONE: (614) 624-3774
TELEFAX: (614) 624-3074
TELEX: No. 5712250e
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 857 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
DESCRIPTION: Human milk kappa-casein
HYPOTHETICAL: NO
FRAGMENT TYPE:
ANTI-SENSE:
ORIGINAL SOURCE: Human
ORGANISM: Homo sapiens
STRAIN:
INDIVIDUAL ISOLATE:
DEVELOPMENTAL STAGE: Adult
HAPLOTYPE:
TISSUE TYPE: Mammary gland
CELL TYPE:
CELL LINE:
ORGANELLE:
IMMEDIATE SOURCE: Human Mammary Gland
LIBRARY:
CLONE:
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
MAP POSITION:
UNITS:
FEATURE:
NAME/KEY: CDS
LOCATION: 45...593
IDENTIFICATION METHOD: DNA sequencing and restriction analysis
OTHER INFORMATION: The encoded product of nucleotide SEQ ID NO: 1: is the human
PUBLICATION INFORMATION:
AUTHORS: L. Hanson et al
TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use The
JOURNAL:
VOLUME:
ISSUE:
DATE:
PAGES:
DOCUMENT NUMBER: PCT/WO93/15196
FILING DATE: 25-JAN-1993
PUBLICATION DATE: 05-AUG-1993
RELEVANT RESIDUES IN SEQ ID NO:
US-08-730-163-1
Alignment Scores:
Pred. No.: 11.7 Length: 857
Score: 63.00 Matches: 17
Percent Similarity: 50.85% Conservative: 13
Best Local Similarity: 28.81% Mismatches: 25
Query Match: 19.94% Indels: 4
DB: 1 Gaps: 3
US-10-079-754A-10 (1-58) x US-08-730-163-1 (1-857)
QY 1 MetLysIlePheIlePheValPhe---IleMetAlaLeuIleLeuAlaMetIleArgAla 19
DB 45 ATGAAGAGTTCCTTCTAGTTGTCAATGCCCTGGCATTAAACCTGCTTTTGGCTGTG 104
QY 20 AspSerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGln 39

Db 105 GAGGTTCAAAACCAAGAAACAAACAGCATGCCATGCAATGATGAAGACCATTTCTATCAG 164
QY 40 GlnTyrGlnProTyrGlnArgTyrProLeuAsnTyr---ProProlaTyrProPhe 57
Db 165 AAAACAGCTCCATAT-----GTCCCAATGATTATTGTGCCAATAAGTAGCTATCTAT 215
RESULT 15
US-08-256-799-1
Sequence 1, Application US/08256799
Patent No. 6222094
GENERAL INFORMATION:
APPLICANT: HANSSON, Lennart
APPLICANT: STROEMQVIST, Mats
APPLICANT: BERGSTROM, Sven
APPLICANT: HERNELL, Olle
APPLICANT: Toernell, Jan
TITLE OF INVENTION: DNA ENCODING KAPPA-CASEIN, PROCESS FOR
TITLE OF INVENTION: OBTAINING THE PROTEIN AND USE THEREOF
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/256,799
FILING DATE: 06-DEC-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DK 88/92
FILING DATE: 23-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, Iver P.
REGISTRATION NUMBER: 28,005
REFERENCE/DOCKET NUMBER: HANSSON=1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 857 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 45..593
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 45..593
FEATURE:
NAME/KEY: sig_peptide
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NAME/KEY: 5'UTR
LOCATION: 13..44
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US-08-256-799-1

Tue Apr 20 09:21:46 2004

Alignment Scores:

Alignment Scores:					
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Best Local Similarity:	28.8%	Mismatches:	25		
Query Match:	19.9%	Indels:	4		
DB:	3	Gaps:	3		

US-10-079-754A-10 (1-58) x US-08-256-799-1 (1-857)

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45	ATGAAGAGTTTCTTCTAGTTGTC	CAATGCCCTGGCATTAACCTGCTTTTGGCTGTG	104
20	AspSerSerGluGluLysArgHisArgLysArgLysHisArgGlyTyrPheGln	39	
105	GAGGTTCAAACACCGAAGAACACCAACAGCATGCATGAGAAATGATGAAGACCATTCATCATAG	164	
40	GlnTyrGlnProTyrGlnArgTyrProLeuAsnTyr---	ProProlaTyrProPhe	57
165	AAAAACAGCTCCATAT-----GTCCCAATCTATTATGTGCCAAATAGCTATCCTTAT	215	

Search completed: April 20, 2004, 05:14:37
Job time : 1538 secs

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: April 20, 2004, 04:46:40 ; Search time 330 Seconds
(without alignments)
786.441 Million cell updates/sec

Title: US-10-079-754A-10
Perfect score: 316
Sequence: 1 MKIFIFVIMILAMIRAD.....QQYQYQRYPLNYPAYPPF 58

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Searched: 2890132 seqs, 2237290429 residues

Total number of hits satisfying chosen parameters: 5780264

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-TRANS=human40.cai -LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFM=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=200000000 -USFR=US10079754_@CGN 1 1 333 @runat_19042004_135023_23259
-NCPU=6 -ICPU=3 -NO MAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOC=100
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOF=6 -FGAPEXT=7 -YGAPOF=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications NA:
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2: /cgn2_6/prodata/1/pubpna/BCT_NEW_PUB.seq:
3: /cgn2_6/prodata/1/pubpna/US06_NEW_PUB.seq:
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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RESULT 1
US-10-079-754A-15
; Sequence 15, Application US/10079754A
; Publication No. US2002016425A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15

ALIGNMENTS

1	316	100.0	267	14	US-10-079-754A-15	Sequence 15, Appl
2	316	100.0	267	14	US-10-079-623-200	Sequence 200, App
3	316	100.0	505	14	US-10-079-754A-1	Sequence 1, Appl
4	316	100.0	604	14	US-10-079-754A-4	Sequence 4, Appl
5	315	99.7	585	14	US-10-079-754A-2	Sequence 2, Appl
6	277	87.7	525	14	US-10-079-754A-6	Sequence 6, Appl
7	170.5	54.0	869	14	US-10-079-754A-3	Sequence 3, Appl
8	112	35.4	96	14	US-10-079-754A-5	Sequence 5, Appl
9	110	34.8	678	13	US-10-210-172-167	Sequence 167, App
10	110	34.8	1584	16	US-10-104-047-1193	Sequence 1193, App
11	94.5	29.9	438	10	US-09-992-600A-5	Sequence 5, Appl
12	94.5	29.9	438	10	US-09-924-340-5	Sequence 5, Appl
13	94.5	29.9	438	10	US-09-993-095B-5	Sequence 5, Appl
14	94.5	29.9	438	10	US-09-999-570-5	Sequence 5, Appl
15	94.5	29.9	438	15	US-10-000-489-5	Sequence 5, Appl
16	94.5	29.9	438	15	US-10-000-986-5	Sequence 5, Appl
17	94.5	29.9	438	15	US-10-154-678-5	Sequence 5, Appl
18	94.5	29.9	438	15	US-10-001-142-5	Sequence 5, Appl
19	78.5	24.8	2223	15	US-10-128-714-1032	Sequence 1032, Ap
20	78.5	24.8	2223	15	US-10-128-714-2032	Sequence 2032, Ap
21	78.5	24.8	2223	15	US-10-128-714-6032	Sequence 6032, Ap
22	78.5	24.8	2223	15	US-10-128-714-7032	Sequence 7032, Ap
23	78.5	24.8	4223	15	US-10-128-714-32	Sequence 32, Appl
24	78.5	24.8	4223	15	US-10-128-714-5032	Sequence 5032, Ap
25	71.5	22.6	353	16	US-10-260-238-4986	Sequence 4986, Ap
26	69.5	22.0	449	10	US-09-918-995-20169	Sequence 20169, A
27	69.5	22.0	517	9	US-09-920-300A-313	Sequence 313, App
28	69.5	22.0	517	14	US-10-033-528-313	Sequence 313, App
29	69.5	22.0	517	15	US-10-099-928-313	Sequence 313, App
30	69.5	22.0	2581	9	US-09-738-973-66	Sequence 66, Appl
31	69.5	22.0	2581	9	US-09-854-133-66	Sequence 66, Appl
32	69.5	22.0	2581	15	US-10-144-649A-66	Sequence 35577, A
33	69	21.8	687	13	US-10-282-122A-35577	Sequence 125, App
34	67.5	21.4	5307	17	US-10-257-166-135	Sequence 2, Appl
35	67.5	21.4	3673778	15	US-10-313-841-2	Sequence 5849, Ap
36	67	21.2	370	13	US-10-424-598-5849	Sequence 116142, Sequence
37	67	21.2	612	13	US-10-027-632-116142	Sequence 116142, Sequence
38	67	21.2	612	16	US-10-027-632-116142	Sequence 24551, A
39	67	21.2	837	16	US-10-369-493-24551	Sequence 36651, A
40	66.5	21.0	1109	13	US-10-282-122A-36651	Sequence 11, Appl
41	66.5	21.0	5310	15	US-10-172-086-11	Sequence 28310, A
42	66	20.9	2004	13	US-10-282-122A-28310	Sequence 22947, A
43	65.5	20.7	3327	13	US-10-282-122A-22947	Sequence 245, App
44	65.5	20.7	5239	15	US-10-311-455-245	Sequence 3882, Ap
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-15

Alignment Scores:
Pred. No.: 6,31e-37 Length: 267
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-15 (1-267)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATTATCTCTCGGTATCCATTTCCT 217

RESULT 2
US-10-079-623-200
; Sequence 200, Application US/10079623
; Publication No. US20020169302A1
; GENERAL INFORMATION:
; APPLICANT: Havukkala, Ilkka J.
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; TITLE OF INVENTION: Compositions isolated from bovine
; FILE REFERENCE: 11000.10463
; CURRENT APPLICATION NUMBER: US/10/079,623
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 370
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 200
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-623-200

Alignment Scores:
Pred. No.: 6,31e-37 Length: 267
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-623-200 (1-267)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATTATCTCTCGGTATCCATTTCCT 217

RESULT 3
US-10-079-754A-1
; Sequence 1, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 505
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-1

Alignment Scores:
Pred. No.: 1,5e-36 Length: 505
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-1 (1-505)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATTATCTCTCGGTATCCATTTCCT 217

RESULT 4
US-10-079-754A-4
; Sequence 4, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 505
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-4

Alignment Scores:
Pred. No.: 1,5e-36 Length: 505
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-4 (1-505)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATTATCTCTCGGTATCCATTTCCT 217
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```

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-15

Alignment Scores:
Pred. No.: 6,31e-37 Length: 267
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-15 (1-267)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATTATCTCTCGGTATCCATTTCCT 217

RESULT 2
US-10-079-623-200
; Sequence 200, Application US/10079623
; Publication No. US20020169302A1
; GENERAL INFORMATION:
; APPLICANT: Havukkala, Ilkka J.
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; TITLE OF INVENTION: Compositions isolated from bovine
; FILE REFERENCE: 11000.10463
; CURRENT APPLICATION NUMBER: US/10/079,623
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 370
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 200
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-623-200

Alignment Scores:
Pred. No.: 6,31e-37 Length: 267
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-623-200 (1-267)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATTATCTCTCGGTATCCATTTCCT 217
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; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 604
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-4
Alignment Scores:
Pred. No.: 1.92e-36 Length: 604
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-4 (1-604)
Qy 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaasp 20
Db 154 ATGAAGATCTTTATCTTGTCTTCAATATGCGCTCTCTAGCCATGATTAGAGCTGAT 213
Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db 214 TCATCTGAAGAGAAACGTCACAGGAAACGAAACAAACATCATAGAGGATATTTCAACAA 273
Qy 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db 274 TACCAGCCATATCAACGATATCCACTAAATATCTCTCTGCGTATCCATTTCCT 327

RESULT 5
US-10-079-754A-2
; Sequence 2, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR FILING DATE: 1999-10-29
; PRIOR FILING DATE: 2000-08-22
; PRIOR FILING DATE: 2000-08-22
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 585
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-2
Alignment Scores:
Pred. No.: 2.57e-36 Length: 585
Score: 315.00 Matches: 57
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 98.28% Mismatches: 0
Query Match: 99.68% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-2 (1-585)
Qy 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaasp 20
Db 154 ATGAAGATCTTTATCTTGTCTTCAATATGCGCTCTCTAGCCATGATTAGAGCTGAT 213
Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db 214 TCATCTGAAGAGAAACGTCACAGGAAACGAAACAAACATCATAGAGGATATTTCAACAA 273
Qy 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db 274 TACCAGCCATATCAACGATATCCACTAAATATCTCTCTGCGTATCCATTTCCT 327

RESULT 6
US-10-079-754A-6
; Sequence 6, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR FILING DATE: 2000-10-27
; PRIOR FILING DATE: 1999-10-29
; PRIOR FILING DATE: 2000-08-22
; PRIOR FILING DATE: 2000-08-22
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 525
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-6
Alignment Scores:
Pred. No.: 7.74e-31 Length: 525
Score: 277.00 Matches: 57
Percent Similarity: 82.61% Conservative: 0
Best Local Similarity: 82.61% Mismatches: 1
Query Match: 87.66% Indels: 12
DB: 14 Gaps: 1

US-10-079-754A-10 (1-58) x US-10-079-754A-6 (1-525)
Qy 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaasp 20
Db 43 ATGAAGATCTTTATCTTGTCTTCAATATGCGCTCTCTAGCCATGATTAGAGCTGAT 102
Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 35
Db 103 TCATCTGAAGAGAAACGTCACAGGAAACGAAACAAACATCATGT-TGATAGGTCTCCAGA 161
Qy 36 -----GlyTyrPheGlnGlnTyrGlnProTyrGlnArgTyrProLeu 49
Db 162 ATCTTACTTAATACAGAGGATATTTTCAACAAATACAGCCATATCAACGATATCCACT 221

RESULT 7
US-10-079-754A-3
; Sequence 3, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
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; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; NAME/KEY: CDS
; LOCATION: 84..317
; NAME/KEY: 3'UTR
; LOCATION: 318..438
; NAME/KEY: polyA_signal
; LOCATION: 397..402
; NAME/KEY: polyA_site
; LOCATION: 423..438
; US-10-000-489-5

Alignment Scores:
Pred. No.: 0.000251      Length: 438
Score: 94.50            Matches: 18
Percent Similarity: 56.36% Conservative: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 29.91%      Indels: 7
DB: 10                  Gaps: 1

US-10-079-754A-10 (1-58) x US-09-999-570-5 (1-438)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
Db 84 ATGAAGTTTTCCTGCTTTAGCTTGGCTCTCATGATTCATGATTCACGCTGAT 143
QY 21 SerSerGluGluLysArgHisArgLysArgLysHisArgLysHisArgGlyTyrPheGlnGln 40
Db 144 TCACATGAAAGAGACATCATGGGTATAGAGAAATTCAT----- 185
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyr 55
Db 186 ---GAAAGCATCATTCATACCATATCACAATCACCACCTTTT 227

Search completed: April 20, 2004, 05:54:59
Job time : 358 secs

; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; NAME/KEY: CDS
; LOCATION: 84..317
; NAME/KEY: 3'UTR
; LOCATION: 318..438
; NAME/KEY: polyA_signal
; LOCATION: 397..402
; NAME/KEY: polyA_site
; LOCATION: 423..438
; US-09-999-570-5

Alignment Scores:
Pred. No.: 0.000251      Length: 438
Score: 94.50            Matches: 18
Percent Similarity: 56.36% Conservative: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 29.91%      Indels: 7
DB: 10                  Gaps: 1

US-10-079-754A-10 (1-58) x US-09-999-570-5 (1-438)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
Db 84 ATGAAGTTTTCCTGCTTTAGCTTGGCTCTCATGATTCATGATTCACGCTGAT 143
QY 21 SerSerGluGluLysArgHisArgLysArgLysHisArgLysHisArgGlyTyrPheGlnGln 40
Db 144 TCACATGAAAGAGACATCATGGGTATAGAGAAATTCAT----- 185
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyr 55
Db 186 ---GAAAGCATCATTCATACCATATCACAATCACCACCTTTT 227

RESULT 15
US-10-000-489-5
; Sequence 5, Application US/10000489
; Publication No. US20030092011A1
; GENERAL INFORMATION:
; APPLICANT: Tanaka, Hiroaki
; APPLICANT: Benjamin, Stephane
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91 US6 DIV
; CURRENT APPLICATION NUMBER: US/10/000,489
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
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(without alignments)
2114.040 Million cell updates/sec

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-DB=Issued Patents AA -QFMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=BITS -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US10079754 @CGN 1.1 27 @runat 19042004 134912 22735 -NCPUS=6 -ICPU=3
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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:
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2: /cgn2_6/ptodata/2/iaa/5B COMB.pcp:*
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5: /cgn2_6/ptodata/2/iaa/PTCUS COMB.pcp:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pcp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
c 1	75	7.2	370	1	US-08-415-818-12 Sequence 12, Appl
c 2	75	7.2	370	2	US-08-894-236-12 Sequence 12, Appl
c 3	75	7.2	370	5	PCT-US96-01444-12 Sequence 12, Appl
c 4	73.5	7.1	1912	4	US-09-495-714C-2 Sequence 2, Appl
c 5	73.5	7.1	1977	4	US-09-495-714C-4 Sequence 4, Appl
c 6	72.5	7.0	1985	4	US-09-495-714C-6 Sequence 6, Appl
c 7	70	6.8	223	4	US-09-489-847-176 Sequence 176, Appl
c 8	69.5	6.8	275	4	US-09-252-991A-19818 Sequence 19818, A
c 9	68.5	6.6	273	4	US-08-936-165A-395 Sequence 395, A
c 10	68	6.6	482	4	US-08-107-532A-5672 Sequence 5672, Ap
c 11	67.5	6.6	926	1	US-08-159-340A-2 Sequence 2, Appl
c 12	66.5	6.5	161	2	US-08-286-819A-25 Sequence 25, Appl

Sequence 25, Appl
Sequence 60, Appl
Sequence 219, Appl
Sequence 217, Appl
Sequence 27, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 5222, Ap
Sequence 6, Appl
Sequence 6, Appl
Sequence 4, Appl
Sequence 6, Appl
Sequence 5146, Ap
Sequence 1, Appl
Sequence 1244, Ap
Sequence 8193, Ap
Sequence 356, App
Sequence 26, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 20066, A
Sequence 13, Appl
Sequence 7127, Ap
Sequence 3464, Ap
Sequence 6911, Ap
Sequence 8, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 31, Appl
Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-415-818-12
; Sequence 12, Application US/08415818
; Patent No. 5621079
; GENERAL INFORMATION:
; APPLICANT: Cascieri, Margaret A.
; APPLICANT: Linemeyer, David L.
; APPLICANT: MacNeil, Douglas J.
; APPLICANT: Shiao, Lin-Lin
; APPLICANT: Strader, Catherine D.
; APPLICANT: Tan, Carina P.
; APPLICANT: Weinberg, David H.
; TITLE OF INVENTION: NEUROPEPTIDE Y RECEPTOR
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Mary A. Appollina
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/415.818
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/383,746
; FILING DATE: 03-FEB-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Appollina, Mary A.
; REGISTRATION NUMBER: 34,087


```

, REFERENCE/DOCKET NUMBER: 19390
,
, TELECOMMUNICATION INFORMATION:
,
, TELEPHONE: 908-594-3462
,
, TELEFAX: 908-594-4720
,
, INFORMATION FOR SEQ ID NO: 12:
,
, SEQUENCE CHARACTERISTICS:
,
, LENGTH: 370 amino acids
,
, TYPE: amino acid
,
, STRANDEDNESS: single
,
, TOPOLOGY: linear
,
, MOLECULE TYPE: protein
,
, US-08-415-818-12

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Alignment Scores:

Alignment scores:			
Pred. No.:	0.892	Length:	370
Score:	75.00	Matches:	49
Percent Similarity:	35.53%	Conservative:	27
Best local Similarity:	22.90%	Mismatches:	70
Query Match:	7.23%	Indels:	68
Da.	1	Gaps:	13

US-10-079-754A-4 (1-604) X US-08-415-818-12 (1-370)

564	QY	ATGGTAAGTGCACAGAAAAGAAGTAGAA-----ACCATTATCATAGTTCTCAGAGACTA	511
59	Dd	lileillePheLysGlnArgLysAlaGlnAsnPhetrSerlleuleullealaenleu	78
510	QY	TCA-----TTATTATGTGTTTTAAAAATATTGATATTTCATCCAAAGTAGTGTTG	463
79	Dd	SerLeuSerAspThrLeuValCysValMetCysIleHisPheThrIlellelyrThrleu	98
462	QY	TCAAACACTAC-----TTGACTCATTTTTTTTTTTCTTTTGT	430
99	Dd	MetAspHisTrpIlePheGlyAspThrMetCysArgLeuThrSeryrValGlnSerVal	118
429	QY	-----TTATTTCATTGGAAGATGGTTTTCAACAACAAGAACAGTAGGAAAAATC	379
119	Dd	SerIleSerValSerIlePheSerLeuValPheThrAlaValGluArgtyrGlnLeuille	138
378	QY	AAT-----GTGAAAAAATCTCTCTAATCATCTCGTCTAGTTACTTAAGCACGACTT	331
139	Dd	ValAsnProArgGlyTrpLysProSerValThrHisAlatyr-----	152
330	QY	TTAAGGAAATGCGATACGCCAGGAGGATAATTAGTGG---ATATCGTTTGATAGCTGGTA	274
153	Dd	-----TpGlyIleThrLeuillelrPhePhe	161
273	QY	TTGTGAAAATATCCTCTATGATGTTTTTTCCGTTTCTGTGACGTTTCTCTTCAGATGA	214
162	Dd	SerLeuLeuLeuSerIleProPhePheLeuSeryrHisLeuthr-----	176
213	QY	ATCAGCTCTAATCATGGCTAGGATGAGAGC---CATTAATGAAGNACAAGAATAAGATCTT	157
177	Dd	-----AspGluProPheHisAsnLeuSerLeuProThrAspLeu	189
156	QY	CATATT-----TGGTGGAGTCCAGTCCATGAAAGATGAATT	121
190	Dd	TyrThrHisGlnValAlaCysValGluAsnTrp-----ProSerLysLysAspArgLeu	207
120	QY	CTGATCGCTCAGAGATGTTCTTCTGATAGAAAACGTGCTGTTTAAATACCTTGAATCC	61
208	Dd	LeuPheThrThrSerLeuPheLeuGluGlnTyrrPheValProLeu-----Gly	223
60	QY	TTTCATTGTTTTTGTAAATTACATCATGATTATGAGATCTTTATTA	19
224	Dd	PheIleulleuCys---TyrLeuLysIleValIleCysLeu	236

RESULT 2

US-08-894-236-12
; Sequence 12, Application US/08894236
; Patent No. 5939263
; GENERAL INFORMATION:
; APPLICANT: Cascieri, Margaret A.

APPLICANT: Linemeyer, David L.
 APPLICANT: MacNeil, Douglas J.
 APPLICANT: Shiao, Lin-Lin
 APPLICANT: Strader, Catherine D.
 APPLICANT: Tan, Carina P.
 APPLICANT: Weinberg, David H.
 TITLE OF INVENTION: NEUROPEPTIDE Y RECEPTOR
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Mary A. Appollina
 STREET: P.O. Box 2006, 126 E. Lincoln Ave.
 CITY: Rahway
 STATE: NJ
 COUNTRY: USA
 ZIP: 07065
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:

FILING DATE: 425
EXPIRATION: 425

CLASSIFICATION: 435
 PRIOR APPLICATION NUMBER: 08/383,746
 FILING DATE: 03-FEB-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/415,818
 FILING DATE: 03-APR-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Apollonia, Mary A.
 REGISTRATION NUMBER: 34,087
 REFERENCE/DOCKET NUMBER: 19390Y
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 908-594-3462
 TELEFAX: 908-594-4720
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 370 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 894-236-12

Alignment Scores:

Alignment Scores:		
Prepared, No.:	0.892	Length: 370
Score:	75.00	Matches: 49
Percent Similarity:	35.51%	Conservative: 27
Best Local Similarity:	22.90%	Mismatches: 70
Query Match:	7.23%	Indels: 68
DB:	2	Gaps: 13

US-10-079-754A-4 (1-604) x US-08-894-236-12 (1-370)

	QY	564	ATGTTAAAGTCACACAGAGAATAAAGAAAGTAGAA-----ACC AATTACA CATAGTTC CAGAGACTA	511
	D b	59	IleIe rPhe l e y s I y s Gln A r g L y s A la Gln As n P he T hr S er I le u l e u l e Ala a n Le u	78
	QY	510	TCA-----TTATTA TC GTT TAAAAAT ATGCAT TTGA TTCCCAA GTATGTGGTG	463
	D b	79	SerLeuSerAs pThrLeuValCysValMetCysIleHisPheThrIleIeyfyrThrLeu	98
	QY	462	TGCCAACATAC-----TTGCACTCATTTTTTTTTTCTTCTGTT	430
	D b	99	MetAspHisTrpIlePheGlyAspThrMetCysArgLeuthrSeryrValGlnSerVal	118
	QY	429	-----TTATTCATTTTCCAAGATGGTTTTC CAACACA CAGAAA GAGTACG AAAAATC	379
	D b	119	SerLeSerValSerIlePheSerLeuValPheThrAlavalGluArgfyrgInLeuille	138
	QY	378	ATT-----GTGAAAAAATCTCTTAAATCATGTCCTGTAGTACTAAGCAGCAAT	331

DB 139 ValAsnProArgGlyTrpLysProSerValThrHisAlaTyr----- 152
QY 330 TTAAGGAATGCGATCGAGGAGATAATTAGTGG---ATATCGTTGATATGCTGGTA 274
DB 153 -----TTPGlyIleThrLeuIleTrpLeuPhe 161
QY 273 TTGTTGAAATATCTCTATGATGTTTTCGTTTCTGTCGACGTTCTCTTCAGATGA 214
DB 162 SerLeuLeuSerIleProPheLeuSerTyrHisLeuThr----- 176
QY 213 ATCAGCTCTAATCATGGTAGGAGAGC---CATATGAGAGACAAAGATAAGATCTT 157
DB 177 -----AspGluProPheHisAsnLeuSerLeuProThrAspLeu 189
QY 156 CATATT-----TGGTGGAGTCCAGTCATCAAGAGATGAATT 121
DB 190 TyrThrHisGlnValAlaCysValGluAsnTrp-----ProSerLysLysAspArgLeu 207
QY 120 CTGATGCTTCAGGAGATGTTCTTTGCTAGAAAACCTGCTGTGTTTAAATACCTTGAATCC 61
DB 208 LeuPheThrThrSerLeuPheLeuGlnTyrPheValProLeu-----Gly 223
QY 60 TTCATTGTTTGTAAATACATCAGTTATGAGATCTTATTA 19
DB 224 PheIleLeuIleCys---TyrLeuLysIleValIleCysLeu 236

RESULT 3

PCT-US96-01444-12
; Sequence 12, Application PC/TUS9601444
; GENERAL INFORMATION:
; APPLICANT: Cascieri, Margaret A.
; APPLICANT: Linemeyer, David L.
; APPLICANT: MacNeil, Douglas J.
; APPLICANT: Shiao, Lin-Lin
; APPLICANT: Strader, Catherine D.
; APPLICANT: Tan, Carina P.
; APPLICANT: Weinberg, David H.
; TITLE OF INVENTION: NEUROPEPTIDE Y RECEPTOR
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Mary A. Appollina
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/01444
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA: 08/383,746
; APPLICATION NUMBER: 03-FEB-1995
; FILING DATE: 03-FEB-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/415,818
; FILING DATE: 03-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Appollina, Mary A.
; REGISTRATION NUMBER: 34,087
; REFERENCE/DOCKET NUMBER: 19390Y
; TELEPHONE: 908-594-3462
; TELEFAX: 908-594-4720
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 amino acids
; TYPE: amino acid

STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US96-01444-12
Alignment Scores:
Pred. No.: 0.892 Length: 370
Score: 75.00 Matches: 49
Percent Similarity: 35.51% Conservative: 27
Best Local Similarity: 22.90% Mismatches: 70
Query Match: 7.23% Indels: 68
DB: 5 Gaps: 13
US-10-079-754A-4 (1-604) x PCT-US96-01444-12 (1-370)
QY 564 ATGTAAGTACAGAGAGAAAGTAGAA-----ACCAATTACATAGTTCAGAGACTA 511
DB 59 IleIlePheLysGlnArgLysAlaGlnAsnPheThrSerIleLeuIleAlaAsnLeu 78
QY 510 TCA-----TTATTATCTTTTAAATATGATATTTGATTCCTCAAGTAGTGTG 463
DB 79 SerLeuSerAspThrLeuValCysValMetCysIleHisPheThrIleIleTyrThrLeu 98
QY 462 TGAACACTAC-----TTGACTGATTTTTTTTCTTTCTTTGTT 430
DB 99 MetAspHisTrpIlePheGlyAspThrMetCysArgLeuThrSerTyrValGlnSerVal 118
QY 429 -----TTATTTCATTTGAAAGATGTTTTCACACACACAGAGAGTAGGAAAAATC 379
DB 119 SerIleSerValSerIlePheSerLeuValPheThrAlaValGluArgTyrGlnLeuIle 138
QY 378 ATT-----GTGAAAAATCTCTTAATCACTGCTCTAGTGTACTTAAAGCAGCAT 331
DB 139 ValAsnProArgGlyTrpLysProSerValThrHisAlaTyr----- 152
QY 330 TTAAGGAATGCGATCGAGGAGATAATTAGTGG---ATATCGTTGATATGCTGGTA 274
DB 153 -----TTPGlyIleThrLeuIleTrpLeuPhe 161
QY 273 TTGTTGAAATATCTCTATGATGTTTTCGTTTCTGTCGACGTTCTCTTCAGATGA 214
DB 162 SerLeuLeuSerIleProPheLeuSerTyrHisLeuThr----- 176
QY 213 ATCAGCTCTAATCATGGTAGGAGAGC---CATATGAGAGACAAAGATAAGATCTT 157
DB 177 -----AspGluProPheHisAsnLeuSerLeuProThrAspLeu 189
QY 156 CATATT-----TGGTGGAGTCCAGTCATCAAGAGATGAATT 121
DB 190 TyrThrHisGlnValAlaCysValGluAsnTrp-----ProSerLysLysAspArgLeu 207
QY 120 CTGATGCTTCAGGAGATGTTCTTTGCTAGAAAACCTGCTGTGTTTAAATACCTTGAATCC 61
DB 208 LeuPheThrThrSerLeuPheLeuGlnTyrPheValProLeu-----Gly 223
QY 60 TTCATTGTTTGTAAATACATCAGTTATGAGATCTTATTA 19
DB 224 PheIleLeuIleCys---TyrLeuLysIleValIleCysLeu 236

RESULT 4

US-09-495-714C-2
; Sequence 2, Application US/09495714C
; Patent No. 6670465
; GENERAL INFORMATION:
; APPLICANT: University Technologies International Inc.
; TITLE OF INVENTION: RETINAL CALCIUM CHANNEL (ALPHA) 1F-SUBUNIT GENE
; FILE REFERENCE: 45499.4 (formerly 45074.6)
; CURRENT APPLICATION NUMBER: US/09/495,714C
; CURRENT FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: Patent In version 3.1
; SEQ ID NO 2
; LENGTH: 1912

QY 108 GAGATGTTCTTTGCTAGAAACTGCTGTGTTTAAATACCTTGAAATCCTTCATTTGTTT 49
DB 726 GlyProPhePheProGlyMetLeuValCysValTyrPheIleLeuPheIleCys--- 744
QY 48 TGTAAATACATCAGTTATGAGATCTTATTA 19
DB 745 GlyAsnTyr-IleLeuLeuAenValPheLeu 754

RESULT 7

US-09-489-847-176
; Sequence 176, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 176
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (233)
; OTHER INFORMATION: Xaa equals stop translation
US-09-489-847-176

Alignment Scores:
Pred. No.: 3 34 Length: 233
Score: 70.00 Matches: 25
Percent Similarity: 43.27% Conservative: 20
Best Local Similarity: 24.04% Mismatches: 32
Query Match: 6.80% Indels: 27
DB: 4 Gaps: 2

US-10-079-754A-4 (1-604) x US-09-489-847-176 (1-233)

QY 305 ATCTCTCGGTATCCATTTCCTTAAATGCTGTAGTAACACAGGACATGATGAG 364
DB 131 MetMetValThrThrSerPheLeuSerMetTrpLeuSerAsnThrAlaSer 147
QY 365 AGATTTTTCACATGATTTTCTACTCTCTCTGTTGTTGTTCAAAACCATCTTCAATG 424
DB 148 -----ThrAlaMetMetLeuProIleAlaAsnAlaIleLeuLysSerLeuPheGlyGln 165
QY 425 AATAAACAAGAAAAAATCAGTCAAGTAGTTGCACACACATACCTTGAATCAAT 484
DB 166 LysGluValArgLysAspProSerGlnGluSerGluGluAsnThrGlyIleGluProAsn 185
QY 485 ATCAATATTTTAAACAT----- 502
DB 186 ThrPheLeuSerGluGluArgLeuLysLeuGlnAlaProLeuValIleArgLeuGlyGln 205
QY 503 -----AATATGATAGTCTCTGAACATATGTAATTTGTTTCTACT 541
DB 206 IleThrGluSerGlyGlnTrpAsn-MetSerGlyAsnAspValCysAsnPheArgValIle 225
QY 542 TTCTTTTCTC 551

DB 225 userPheLeu 228
|||||

RESULT 8

US-09-252-991A-19818
; Sequence 19818, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 19818
; LENGTH: 275
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19818

Alignment Scores:
Pred. No.: 3 98 Length: 275
Score: 69.50 Matches: 34
Percent Similarity: 31.21% Conservative: 20
Best Local Similarity: 19.65% Mismatches: 52
Query Match: 6.75% Indels: 67
DB: 4 Gaps: 5

US-10-079-754A-4 (1-604) x US-09-252-991A-19818 (1-275)

QY 145 CCACCAATATGAAGATCTTTATCTTGTCTTC- 177
DB 30 ProProAspMetArgIlePheLeuProAlaLeuAlaTrpSerThrArgThrArg 49
QY 178 ----- 190
DB 50 ArgProArgProAlaAlaValIleAlaHisIleSerProAlaAlaProAlaProThrIle 69
QY 181 ATGGCTCTCATCTAGCCATGATTAGAGCTGATTATCTTGAAGAGAAAGCT- 231
DB 70 SerThrSerValLeuAlaThrValProLeuArgSerSerGluThrAlaArgIleLeuPro 89
QY 232 -----CACAGAAACGGAACAAACATCATAGAGATATTTCAACAATAC 276
DB 90 GluAlaAlaValGlyArgArgSerArgGlyThrLeuGlyValPheArgGluPro 109
QY 277 CAGCCATATCAACGATATCCACTAAATTTATCTCTCGGTATCCATTTCCTTAAATGCT 336
DB 110 ProAspProCysMetIleProLeuLysTyrLeuGlnAlaTyrProAlaSer 126
QY 337 GCTTAGTAATACAGACATGATTAGAGATTTTTCACAAATGAT 381
DB 127 -----LeuGlnAspGlnValArgGlnLeuIleAlaGluAsnArgLeuGlyGluTyr 143
QY 382 -----TTTCTCTAC 390
DB 144 LeuGluArgArgTyrProGlyArgHisAspValGlnSerAspLysAlaLeuTyrAlaTyr 163
QY 391 TCTTTCTGTTGTGTGAACACCATCTTTCAAAATGAATAAACAAGAAAAAATC- 447
DB 164 ThrMetAsnLeuLysGlnGluHisLeuArgAsnAlaProGlyLeuAspLysValLeuTyr 183
QY 448 -----AGTCAAGTAGTTGCACACACATCTTGGATC 480
DB 184 AspAsnLysLeuAspValValGlnArgAlaLeuGlyLeu 196

RESULT 9

US-08-936-165A-395

Sequence 395, Application US/08936165A
Patent No. 6348582
GENERAL INFORMATION:
APPLICANT: Black, Michael
APPLICANT: Burnham, Martin
APPLICANT: Hodgson, John
APPLICANT: Knowles, David
APPLICANT: Lonetto, Michael
APPLICANT: Nicholas, Richard
APPLICANT: Pratt, Julie
APPLICANT: Reichard, Richard
APPLICANT: Rosenberg, Martin
APPLICANT: Ward, Judith
TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,
TITLE OF INVENTION: Polypeptides and Their Uses
NUMBER OF SEQUENCES: 534
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/936,165A
FILING DATE: 24-SEP-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/027,032
FILING DATE: 24-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: Gimmi, Edward R
REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: F50549
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-4478
TELEFAX: 610-270-5090
TELEX:
INFORMATION FOR SEQ ID NO: 395:
SEQUENCE CHARACTERISTICS:
LENGTH: 273 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-08-936-165A-395

Alignment Scores:
Pred. No.: 5.28 Length: 273
Score: 68.50 Matches: 23
Percent Similarity: 40.66% Conservative: 14
Best Local Similarity: 25.27% Mismatches: 30
Query Match: 6.61% Indels: 3
DB: 4 Gaps: 3

US-10-079-754A-4 (1-604) x US-08-936-165A-395 (1-273)

QY 285 ATATGGCTGGTATTGTTGAAATATCTCTATGATGTTTTCGGTTTCTCTGTGACGTTT 226
Db 61 lletpserAenPheileGluMetGlySerMetMetLeuLeuProMetSerMetLeuPhe 80
QY 225 CTCITCAGATGAATCAGCTCTAATCATGCTAGGCTAGGATGAGCCATAATGAAGACAAAGAT 166
Db 81 LeuPheGlyArgMetLeuSerArgHicgly----- 90
QY 165 AAAGATCTTCATATTGTTGGTGAGCCAGTCATGAAGATGAAATTCGATGCTTCAGGAG 106
Db 91 LysArgValHis-----ArgHisAlaLeuLeuLeuPheValAla 103

QY 105 ATGTTCTTTGCTAGAAAACCTGCTGTGTTTAAATACCTTGAAATCCTTCATTGTTTGT 46
Db 104 MetPhePhe-Ile-----PheIleAlaI 111
QY 45 AATACATCAGTTATGAGATCTTATTATAGA 15
Db 111 eLeuThrLeuThrMetTrpSerGluTrpArg 121
RESULT 10
US-09-532A-5672
Sequence 5672, Application US/09107532A
Patent No. 5583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 5672:
SEQUENCE CHARACTERISTICS:
LENGTH: 482 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...482
SEQUENCE DESCRIPTION: SEQ ID NO: 5672:
US-09-107-532A-5672

Alignment Scores:
Pred. No.: 6.87 Length: 482
Score: 68.00 Matches: 31
Percent Similarity: 43.54% Conservative: 33
Best Local Similarity: 21.09% Mismatches: 41
Query Match: 6.56% Indels: 42
DB: 7 Gaps: 7

US-10-079-754A-4 (1-604) x US-09-107-532A-5672 (1-482)

QY 546 AGAAGTAGAACCAATACATGTTTCAGAGA----- 514
Db 167 GlnAenLeuLysPheAsnTrpLysMetGlnTrpTyrPheValPheThrLeuIlePhe 186

QY 513 -----CTATCATATTATGTTTAAATATGATTTGATTTCCCAAGTATGTTGTGC 460
Db 187 SerillelThrPhePheMetPheArgPheGluTyrPheThrArgTyrThrTyrSer 206
QY 459 AACTACTTGACGATGTTTTTTCTGTTTATTTATTTCAATTGAAAGATGTTTCAACACA 400
Db 207 AsnLeulleThrAsnSerSerLeullePhePhePhePhePhePhePhePhePhe 221
QY 399 ACAGAAAGAGTA-----GGAATAATCATTTG-----AAAAATCTCTTAATCAT 355
Db 222 ThrLysGlyIleAlaThrAlaSerLeulleMetGluAlaGlnLysPheLeulleThrHis 241
QY 354 GTC-----CTGTAGTTACTAGCAGCATTTTA----- 328
Db 242 LysAsnIleArgArgLeulleValSerSerPheLeullePheIleTyrAsnValAsnProPhe 261
QY 327 -----AGAAATGATCGCAGGAGGATAATTAGTGATATCGTTGATGCTG 277
Db 262 AsnValSerArgTyrTyrIleSerTyrValValIleLeullePheMetLeullePheThr 281
QY 276 GTATTGTTGAAATATCTCTCTATG-----ATGTTTTTCCGTTT 238
Db 282 LysLysIleLysValAsnGlnMetLeulleLeulleLeulleLeulleLeullePhe 301
QY 237 CTGTGACGTTTCTCTTCAGA 217
Db 302 ProLeulleAsnPhePheArg 308

RESULT 11
US-08-159-340A-2
; Sequence 2, Application US/08159340A
; Patent No. 5565352
; GENERAL INFORMATION:
; APPLICANT: Papa, Feroz
; APPLICANT: Hochstrasser, Mark
; TITLE OF INVENTION: DEUBIQUITINATING ENZYME: COMPOSITIONS
; TITLE OF INVENTION: AND METHODS
; NUMBER OF SEQUENCE: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 24-NOV-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; REFERENCE/DOCKET NUMBER: ARCD:112/HVL
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (512) 474-7577
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 926 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-159-340A-2

Alignment Scores: 9.1 Length: 926
Pred. No.:

Score: 67.50 Matches: 48
Percent Similarity: 39.11% Conservative: 22
Best Local Similarity: 26.82% Mismatches: 51
Query Match: 6.56% Indels: 58
DB: 1 Gaps: 10
US-10-079-754A-4 (1-604) x US-08-159-340A-2 (1-926)
QY 82 CACGAGTTTCTAGCAAGAACATCTCTGGAAGCATCAGAAATTC-----ATCTTT 132
Db 390 GlnGlnSerAspAsnAspHisValLeulleArgSerSerSerPheLysLeullePhe 409
QY 133 CATGACTGACTCCACCAATATGAAG-----ATCTTTATCTTTGCTTCTTC 177
Db 410 SerAsnTyrThrSerProAsnProLysAsnSerAsnSerAsnLeulleTyrSerIleSer 429
QY 178 ATTATGCTCTCATCTAGCCATGATTAGCTGATTCATCTCGAAGAAACGTCACAGG 237
Db 429 rLeuSerIleSerSerSerProSerProLeulleHisSerProAspProValLysG 449
QY 238 AAACGGA-----AAAAACATCATAGGA 261
Db 449 YasnSerPheArgIleAsnTyrProGluThrProHisLeulleTyrLysAsnSerGluThrAs 469
QY 262 TATTTTC-----AACATACCCAGCATATCAACGATAT 294
Db 469 pPheMetThrAsnGlnArgGlnLeulleAsnHisAsnSerPheAlaHisIleAlaPro 489
QY 295 CCACATAATTATCTCTCGGTATCCATTTCTTAAATGCTGCTGTAGTAACACGAGAC 354
Db 489 eAsn-----ThrLysAlaIleThrSerProSerArgTh 500
QY 355 A-----TGATTAGAGAGATTTTTCACATGATTTTTCCT---ACTCTTTCTGTGT 402
Db 500 rAlaThrProLysLeulleGlnArg-----PheProGlnThrIleSerMetAs 515
QY 403 GTTGAAACCATCTTTTCAATGAATAAACAACAAACAAACAAACAAACAAACAAACAA 462
Db 515 nLeu-----AsnMetAsnSerAsnGlyHisSerSerAlaThrSerThrIleG 531
QY 463 CAACACATCTTGGAATCAAAATCAATATATTTTAAACATAATAATGATGATCTC 517
Db 531 nProSerCysLeulleSerLeulle-----AsnAsnAspSerLeu 543

RESULT 12
US-08-286-819A-25
; Sequence 25, Application US/08286819A
; Patent No. 5671910
; GENERAL INFORMATION:
; APPLICANT: ARTHUR, MICHEL
; APPLICANT: DUKTA-MALEN, SYLVIE
; APPLICANT: MOLINAS, CATHERINE
; APPLICANT: COURVALIN, PATRICE
; TITLE OF INVENTION: POLYPEPTIDES IMPLICATED IN THE
; TITLE OF INVENTION: EXPRESSION OF RESISTANCE TO GLYCOPOLYMERIDES, IN PARTICULAR
; TITLE OF INVENTION: IN GRAM-POSITIVE BACTERIA, NUCLEOTIDE SEQUENCE CODING FOR
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ORLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 S. Jefferson Davis Highway, Suite 400
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/286.819A

FILING DATE: 05-AUG-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 FILING DATE: 08/174,682
 FILING DATE: 28-DEC-1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 FILING DATE: 10-AUG-1992
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 FILING DATE: 29-OCT-1991
 PRIOR APPLICATION DATA:
 FILING DATE: 31-OCT-1990
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Oblon, No. 587,910man F.
 REGISTRATION NUMBER: 24,618
 REFERENCE/DOCKET NUMBER: 660-060-0 PCT
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 25:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 161 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-286-819A-25

Alignment Scores:
 Pred. No.: 8.32 Length: 161
 Score: 66.50 Matches: 21
 Percent Similarity: 50.00% Conservative: 8
 Best Local Similarity: 36.21% Mismatches: 18
 Query Match: 6.46% Indels: 11
 DB: 2 Gaps: 2

US-10-079-754A-4 (1-604) x US-08-286-819A-25 (1-161)

QY 31 ATAACTGATGTAATACAAAATGAAGGATTTCAAGGTATTAAACACAGCAGTTT 90
 DB 105 ILeThraSpValIleThraSnThrValGlyGlyPheLeuGlyLeuLysLeuTyGlyLeu 124
 QY 91 TTAGCAAGAACAATCTCTGAGCATCAGAAATTTTCATCTTTCATGACTGCCACCA 150
 DB 125 SerAsn-----LysHisMetAsnGlnLysLysLeuAsp----- 135
 QY 151 AATATGAGATCTTTATCTTCTTCATTTGCTCTCATCTCCTAGCCATGATT 204
 DB 136 -----ArgValIleIlePheValGlyIleLeuLeuValLeuLeuVal 151

RESULT 13

US-08-980-357-25
 Sequence 25, Application US/08980357
 Patent No. 6013508
 GENERAL INFORMATION:
 APPLICANT: ARTHUR, MICHEL
 APPLICANT: DUKTA-WALEN SYLVIE
 APPLICANT: MOLINAS, CATHERINE
 APPLICANT: COURVALIN, PATRICE
 TITLE OF INVENTION: POLYPEPTIDES IMPLICATED IN THE
 EXPRESSION OF RESISTANCE TO GLYCOPETIDES, IN PARTICULAR
 IN GRAM-POSITIVE BACTERIA, NUCLEOTIDE SEQUENCE CODING FOR
 THESE POLYPEPTIDES AND USE FOR DIAGNOSIS
 NUMBER OF SEQUENCES: 54
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
 ADDRESSEE: P.C.
 STREET: 1755 S. Jefferson Davis Highway, Suite 400

CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/980,357
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/286,819
 FILING DATE: 05-AUG-1994
 APPLICATION NUMBER: US 08/174,682
 FILING DATE: 28-DEC-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/917,146
 FILING DATE: 10-AUG-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/FR/91/00855
 FILING DATE: 29-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: FR 9013579
 FILING DATE: 31-OCT-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Oblon, No. 6013508man F.
 REGISTRATION NUMBER: 24,618
 REFERENCE/DOCKET NUMBER: 660-060-0 PCT
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 25:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 161 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-980-357-25

Alignment Scores:
 Pred. No.: 8.32 Length: 161
 Score: 66.50 Matches: 21
 Percent Similarity: 50.00% Conservative: 8
 Best Local Similarity: 36.21% Mismatches: 18
 Query Match: 6.46% Indels: 11
 DB: 2 Gaps: 2

US-10-079-754A-4 (1-604) x US-08-980-357-25 (1-161)

QY 31 ATAACTGATGTAATACAAAATGAAGGATTTCAAGGTATTAAACACAGCAGTTT 90
 DB 105 ILeThraSpValIleThraSnThrValGlyGlyPheLeuGlyLeuLysLeuTyGlyLeu 124
 QY 91 TTAGCAAGAACAATCTCTGAGCATCAGAAATTTTCATCTTTCATGACTGCCACCA 150
 DB 125 SerAsn-----LysHisMetAsnGlnLysLysLeuAsp----- 135
 QY 151 AATATGAGATCTTTATCTTCTTCATTTGCTCTCATCTCCTAGCCATGATT 204
 DB 136 -----ArgValIleIlePheValGlyIleLeuLeuValLeuLeuVal 151

RESULT 14

US-09-393-634-60
 Sequence 60, Application US/09393634
 Patent No. 6558910
 GENERAL INFORMATION:
 APPLICANT: Zuker, Charles S.
 APPLICANT: Adler, Jon Elliot
 APPLICANT: Ryba, Nick

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OM nucleic - protein search, using frame_plus_n2p model

Run on: April 20, 2004, 04:26:25 ; Search time 60.5 Seconds

(without alignments)
5504.350 Million cell updates/sec

Title: US-10-079-754A-4

Perfect score: 1029

Sequence: 1 gaagatttttcaggtcttata.....tatcaagcataaaaaaaa 604

Scoring table: BLOSUM62

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 2249750

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB=Published Applications AA -QFMT=fastan -SUFFIX=rapb -MINMATCH=0.1
-LOCPCL=0 -LOCPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=BIOSUM62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
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-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications AA:

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4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
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15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Length	ID	Description

ALIGNMENTS

RESULT 1

US-10-079-754A-7
; Sequence 7, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Moleenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0

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316	30.7	58	13	US-10-079-754A-10	Sequence 10, Appli																																							
315	30.6	58	13	US-10-079-754A-8	Sequence 8, Appli																																							
214.5	20.8	59	13	US-10-079-754A-12	Sequence 12, Appli																																							
169	16.4	70	13	US-10-079-754A-9	Sequence 9, Appli																																							
112	10.9	21	13	US-10-079-754A-11	Sequence 11, Appli																																							
110	10.7	62	12	US-10-210-172-168	Sequence 168, App																																							
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94.5	9.2	78	10	US-09-992-600A-6	Sequence 6, Appli																																							
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94.5	9.2	78	10	US-09-992-095B-6	Sequence 6, Appli																																							
94.5	9.2	78	10	US-09-999-570-6	Sequence 6, Appli																																							
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73.5	7.1	240	12	US-10-282-122A-54218	Sequence 54218, A																																							
73.5	7.1	246	16	US-10-389-566-1227	Sequence 1227, Ap																																							
73.5	7.1	382	15	US-10-369-493-2291	Sequence 5291, Ap																																							
73	7.0	373	13	US-10-114-893-204	Sequence 204, App																																							
72	7.0	806	12	US-10-282-122A-63502	Sequence 63502, A																																							
71	6.9	1201	15	US-10-214-529-7	Sequence 7, Appli																																							
70	6.8	233	12	US-10-351-334-176	Sequence 176, App																																							
70	6.8	276	12	US-10-424-599-154373	Sequence 154373,																																							
70	6.8	294	12	US-10-424-599-156848	Sequence 156848,																																							
70	6.8	309	10	US-09-510-332-131	Sequence 131, App																																							
69.5	6.8	614	12	US-10-282-122A-53563	Sequence 53563, A																																							
69	6.7	229	12	US-10-282-122A-71761	Sequence 71761, A																																							
69	6.7	317	12	US-10-424-599-159483	Sequence 159483,																																							
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69	6.7	454	12	US-10-282-122A-52793	Sequence 52793, A																																							
68.5	6.6	273	9	US-09-939-980-395	Sequence 395, App																																							
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68	6.6	408	12	US-10-335-977-7068	Sequence 7068, Ap																																							
68	6.6	465	12	US-10-335-977-7069	Sequence 7069, Ap																																							
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68	6.6	722	12	US-10-306-631-25	Sequence 25, Appli																																							
68	6.6	722	12	US-10-306-631-103	Sequence 103, App																																							
68	6.6	722	12	US-10-306-631-105	Sequence 105, App																																							
67.5	6.6	163	12	US-10-424-599-189979	Sequence 189979,																																							
67.5	6.6	248	10	US-09-955-526-4	Sequence 4, Appli																																							

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; SEQ ID NO 7
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-7
Alignment Scores:
Pred. No.: 3.69e-29 Length: 58
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 30.71% Indels: 0
DB: 13 Gaps: 0
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QY 154 ATGAAGATCTTTATCTTGTCTTCATATGCTCTCATCTAGCCATGATTAGAGTGAT 213
BB 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleAlaMetIleAlaGlaasp 20
QY 214 TCATCTGAAGAGAAACGTCACAGAAACGGAACAAACATCATAGAGGATATTTCAACAA 273
DB 21 SerSerGluGluLysArgHisArgLysArgLysHisArgLysHisArgGlyTyrPheGlnGln 40
QY 274 TACCAGCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 327
DB 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
RESULT 2
US-10-079-754A-10
; Sequence 10, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-8
Alignment Scores:
Pred. No.: 4.88e-29 Length: 58
Score: 315.00 Matches: 57
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 98.28% Mismatches: 0
Query Match: 30.61% Indels: 0
DB: 13 Gaps: 0
US-10-079-754A-4 (1-604) x US-10-079-754A-8 (1-58)
QY 154 ATGAAGATCTTTATCTTGTCTTCATATGCTCTCATCTAGCCATGATTAGAGTGAT 213
DB 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleAlaMetIleAlaGlaasp 20
QY 214 TCATCTGAAGAGAAACGTCACAGAAACGGAACAAACATCATAGAGGATATTTCAACAA 273
DB 21 SerSerGluGluLysArgHisArgLysArgLysHisArgLysHisArgGlyTyrPheGlnGln 40
QY 274 TACCAGCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 327
DB 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
RESULT 4
US-10-079-754A-12
; Sequence 12, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
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; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-12

Alignment Scores:
Pred. No.:          Length:      59
Score:              214.50      Matches:      47
Percent Similarity: 78.33%      Conservative: 0
Best Local Similarity: 78.33%    Mismatches: 11
Query Match:        20.85%      Indels:      12
DB:                 13          Gaps:         1

US-10-079-754A-4 (1-604) x US-10-079-754A-12 (1-59)
QY 154 ATGAGATCTTTATCTTCTTCATTTGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Db 1 MetLysIlePheIlePheValPheMetAlaLeuIleLeuAlaMetIleAargAlaasp 20
QY 214 TCATCTGAAGAGAAACGTCACAGGAACGGAAAAACATCAT- 255
Db 21 SerSerGluGluYsAargHisAargYsAargLysHisValAspAargSerProGlu 40
QY 256 -----AGAGGATATTTTCACATATCCAGCCATATCAGCATATCCAC 298
Db 41 PheLeuLeuIleGlnGlu-AspIlePheAsnAsnThrSerHisIleAsnAspIleHis 59

RESULT 5
US-10-079-754A-9
; Sequence 9, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-11

Alignment Scores:
Pred. No.:          Length:      21
Score:              112.00      Matches:      18
Percent Similarity: 100.00%     Conservative: 1
Best Local Similarity: 94.74%   Mismatches: 0
Query Match:        10.88%     Indels:      0
DB:                 13          Gaps:         0

US-10-079-754A-4 (1-604) x US-10-079-754A-11 (1-21)
QY 265 TTTCAACAATACCAGCCATATCAACGATATCCACTAAATATTCCTCGGTATCCA 321
Db 1 PheGlnGlnTyGlnProTyGlnAArgTyProLeuAsnTyProProAlaTyPro 19

RESULT 7
US-10-210-172-168
; Sequence 168, Application US/10210172
; Publication No. US20040043928A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Miller, Charles
; APPLICANT: Patturajan, Meera
; APPLICANT: Pena, Carol
; APPLICANT: Rieger, Daniel
; APPLICANT: Shimkets, Richard
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Li, Li
; APPLICANT: Ji, Weizhen
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Casman, Stacie
```

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; Query Match: 16.42%      Indels:      0
DB:           13          Gaps:         0

US-10-079-754A-4 (1-604) x US-10-079-754A-9 (1-70)
QY 154 ATGAGATCTTTATCTTCTTCATTTGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Db 1 MetLysIlePheIlePheIlePheIleMetAlaLeuIleLeuAlaMetIleAargAlaasp 20
QY 214 TCATCTGAAGAGAAACGTCACAGGAACGGAAAAACATCAT 255
Db 21 SerSerGluGluYsAargHisAargYsAargLysHisHis 34

RESULT 6
US-10-079-754A-11
; Sequence 11, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-11

Alignment Scores:
Pred. No.:          Length:      21
Score:              112.00      Matches:      18
Percent Similarity: 100.00%     Conservative: 1
Best Local Similarity: 94.74%   Mismatches: 0
Query Match:        10.88%     Indels:      0
DB:                 13          Gaps:         0

US-10-079-754A-4 (1-604) x US-10-079-754A-11 (1-21)
QY 265 TTTCAACAATACCAGCCATATCAACGATATCCACTAAATATTCCTCGGTATCCA 321
Db 1 PheGlnGlnTyGlnProTyGlnAArgTyProLeuAsnTyProProAlaTyPro 19

RESULT 7
US-10-210-172-168
; Sequence 168, Application US/10210172
; Publication No. US20040043928A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Miller, Charles
; APPLICANT: Patturajan, Meera
; APPLICANT: Pena, Carol
; APPLICANT: Rieger, Daniel
; APPLICANT: Shimkets, Richard
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Li, Li
; APPLICANT: Ji, Weizhen
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Casman, Stacie
```

APPLICANT: Voss, Edward
APPLICANT: Boldog, Ferenc
APPLICANT: Gorman, Linda
APPLICANT: Leite, Mario
APPLICANT: Vernet, Corine
APPLICANT: Anderson, David
APPLICANT: Guo, Xiaojia
APPLICANT: Zhong, Mei
APPLICANT: Gerlach, Valerie
APPLICANT: Hjalt, Tord
APPLICANT: Rastelli, Luca
APPLICANT: Spytsek, Kimberly
APPLICANT: Edinger, Shlomit
APPLICANT: Ellerman, Karen
APPLICANT: Malyankar, Uriel
APPLICANT: MacDougall, John
APPLICANT: Stone, David
APPLICANT: Alsobrook II, John
APPLICANT: Lepley, Denise et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-416 A
CURRENT APPLICATION NUMBER: US/10/210,172
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/309,501
PRIOR FILING DATE: 2001-08-02
PRIOR APPLICATION NUMBER: 60/323,994
PRIOR FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/373,814
PRIOR FILING DATE: 2002-04-19
PRIOR APPLICATION NUMBER: 60/310,291
PRIOR FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: 60/310,951
PRIOR FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: 60/310,544
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: 60/311,292
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/311,979
PRIOR FILING DATE: 2001-08-13
PRIOR APPLICATION NUMBER: 60/313,201
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: 60/312,892
PRIOR FILING DATE: 2001-08-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 327
SOFTWARE: Curaseqlist version 0.1
SEQ ID NO 168
LENGTH: 62
TYPE: PRT
ORGANISM: Homo sapiens
US-10-210-172-168
Alignment Scores:
Pred. No.: 0.000271
Score: 110.00
Percent Similarity: 61.82%
Best Local Similarity: 49.09%
Query Match: 10.69%
DB: 12
Length: 62
Matches: 27
Conservative: 7
Mismatch: 19
Indels: 2
Gaps: 2
US-10-079-754A-4 (1-604) x US-10-210-172-168 (1-62)
QY 154 ATGAAGATCTTTATCTTCTTCATTCATGCTCTCATCTAGCATGATTAGAGTGTAT 213
Db 1 MetLysPheLeuValPheAlaPheLeuAlaLeuMetValSerMetileGlyAlaAasp 20
QY 214 TCATCTGAAGAACGTCACGGAACGGAACGGAACATCATAGAGATATTTTCAACAA 273
Db 21 SerSerGluGluLysPheLeuAaGargileGlyArgPheGlyTyrGlyTyr---GlyPro 39
QY 274 TACCAGGCATATCAACGATATCCACTAAATATCTCTCGGTAT 318
Db 40 TyrGlnProValProGluGlnProLeu---TyrProGlnProTyr 53

RESULT 8

US-09-917-340-19
Sequence 19, Application US/09917340
Patent NO. US2002090369A1
GENERAL INFORMATION:
APPLICANT: Murphy, Christopher J.
APPLICANT: McAnulty, Jonathan F.
APPLICANT: Reid, Ted W.
TITLE OF INVENTION: Transplant Media
FILE REFERENCE: TPLANT-06468
CURRENT APPLICATION NUMBER: US/09/917,340
CURRENT FILING DATE: 2001-07-29
PRIOR APPLICATION NUMBER: 60/221,632
PRIOR FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: 60/249,602
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/290,932
PRIOR FILING DATE: 2001-05-15
NUMBER OF SEQ ID NOS: 96
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 51
TYPE: PRT
ORGANISM: Homo sapiens
US-09-917-340-19
Alignment Scores:
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Score: 95.00
Percent Similarity: 59.57%
Best Local Similarity: 46.81%
Query Match: 9.23%
DB: 9
Length: 51
Matches: 22
Conservative: 6
Mismatch: 13
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Gaps: 2
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QY 154 ATGAAGATCTTTATCTTCTTCATTCATGCTCTCATCTAGCATGATTAGAGTGTAT 213
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QY 214 TCATCTGAAGAGAACGTCAC---AGGAACGGAACAAACAT-----CAT 255
Db 21 SerHisAlaLysArgHisHisGlyTyrLysArgLysPheHisGluLysHisSerHis 40
QY 256 AGAGGATATTTTCAACATAC 276
Db 41 ArgGlyTyrArgSerAsnTyr 47

RESULT 9

US-09-992-600A-6
Sequence 6, Application US/09992600A
Publication No. US20030027161A1
GENERAL INFORMATION:
APPLICANT: Benjamin, Stephanie
APPLICANT: Tanaka, Hiroaki
TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
FILE REFERENCE: 91.USA.DIV
CURRENT APPLICATION NUMBER: US/09/992,600A
CURRENT FILING DATE: 2001-11-13
PRIOR APPLICATION NUMBER: US 09/924,340
PRIOR FILING DATE: 2001-08-06
PRIOR APPLICATION NUMBER: PCT/IB01/01715
PRIOR FILING DATE: 2001-08-06
PRIOR APPLICATION NUMBER: US 60/305,456
PRIOR FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: US 60/302,277
PRIOR FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: US 60/298,698
PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: US 60/293,574
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 114

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; SOFTWARE: Jpatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-09-992-600A-6
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Pred. No.: 0.021 Length: 78
Score: 94.50 Matches: 18
Percent Similarity: 56.36% Conservative: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18% Indels: 7
DB: 10 Gaps: 1

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QY 154 ATGAAGATCTTTATCTTTGCTTCATATGGCTCTCATCTAGCATGATTAGAGCTGAT 213
Db 1 MetLysPheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
QY 214 TCATCTGAAGAAACGCTCACAGGAACGGAACCAACATCATAGAGGATATTTCAACA 273
Db 21 SerHisGluLysArgHisGlyTyrArgArgLysPheHis----- 34
QY 274 TACCAGCCATATCAACGATATCCACTAAATATTCCTCTCGGTAT 318
Db 35 ---GluLysHisSerTyrHisIleThrLeuLeuProLeuPhe 48

RESULT 11
US-09-992-095B-6
; Sequence 6, Application US/0992095B
; Publication No. US20030157485A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US2.DIV
; CURRENT APPLICATION NUMBER: US/09/992,095B
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: Jpatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-09-992-095B-6
Alignment Scores:
Pred. No.: 0.021 Length: 78
Score: 94.50 Matches: 18
Percent Similarity: 56.36% Conservative: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18% Indels: 7
DB: 10 Gaps: 1

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QY 154 ATGAAGATCTTTATCTTTGCTTCATATGGCTCTCATCTAGCATGATTAGAGCTGAT 213
Db 1 MetLysPheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
QY 214 TCATCTGAAGAAACGCTCACAGGAACGGAACCAACATCATAGAGGATATTTCAACA 273
Db 21 SerHisGluLysArgHisGlyTyrArgArgLysPheHis----- 34
QY 274 TACCAGCCATATCAACGATATCCACTAAATATTCCTCTCGGTAT 318
Db 35 ---GluLysHisSerTyrHisIleThrLeuLeuProLeuPhe 48

RESULT 12
US-09-999-570-6
; Sequence 6, Application US/09999570
; Publication No. US20030170628A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
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; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: G-091US08DIV
; CURRENT APPLICATION NUMBER: US/09/999,570
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 05/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-09-999-570-6

Alignment Scores:
Pred. No.: 0.021 Length: 78
Score: 94.50 Matches: 18
Percent Similarity: 56.36% Conservatives: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18% Indels: 7
DB: 10 Gaps: 1

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QY 154 ATGAAGATCTTTATCTTCTTCATTCATGCTCTCATCTAGCCATGATTAGAGCTGAT 213
DB 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
QY 214 TCATCTGAAGAAACGCTCAGAGAAACGGAACCAATCATATAGAGGATATTTTCAACAA 273
DB 21 SerHisGluLysArgHisGlyTyrArgArgLysPheHis----- 34
QY 274 TACAGCCATATCAACGATATCCACTAAATTATCTCTCGGTAT 318
DB 35 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48

RESULT 13
US-10-000-489-6
; Sequence 6, Application US/10000489
; Publication No. US2003092011A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US6.DIV
; CURRENT APPLICATION NUMBER: US/10/000,489
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-10-000-489-6

Alignment Scores:
Pred. No.: 0.021 Length: 78
Score: 94.50 Matches: 18
Percent Similarity: 56.36% Conservatives: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18% Indels: 7
DB: 10 Gaps: 1

; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-10-000-489-6

Alignment Scores:
Pred. No.: 0.021 Length: 78
Score: 94.50 Matches: 18
Percent Similarity: 56.36% Conservatives: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18% Indels: 7
DB: 14 Gaps: 1

US-10-079-754A-4 (1-604) x US-10-000-489-6 (1-78)

QY 154 ATGAAGATCTTTATCTTCTTCATTCATGCTCTCATCTAGCCATGATTAGAGCTGAT 213
DB 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
QY 214 TCATCTGAAGAAACGCTCAGAGAAACGGAACCAATCATATAGAGGATATTTTCAACAA 273
DB 21 SerHisGluLysArgHisGlyTyrArgArgLysPheHis----- 34
QY 274 TACAGCCATATCAACGATATCCACTAAATTATCTCTCGGTAT 318
DB 35 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48

RESULT 14

US-10-000-986-6
; Sequence 6, Application US/10000986
; Publication No. US2003096247A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US9.DIV
; CURRENT APPLICATION NUMBER: US/10/000,986
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
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; LENGTH: 78
; TYPE: PRT
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; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-10-000-986-6

Alignment Scores:
Pred. No.: 0.021 Length: 78
Score: 94.50 Matches: 18
Percent Similarity: 56.36% Conservatives: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18% Indels: 7
DB: 14 Gaps: 1

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DB: 14 Gaps: 1
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Db 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
Qy 214 TCATCTGAAGAGAAACGTCACAGGAAACGGAAGAAACATCATAGAGGATATTTTCAACA 273
Db 21 SerHisGluLysArgHisHisGlyTyrArgArgLysPheHis----- 34
Qy 274 TACCAGCCATATCAACGATATCCATCAATAATTCCTCTCGGTAT 318
Db 35 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48

RESULT 15
US-10-154-678-6
; Sequence 6, Application US/10154678
; Publication No. US20030162186A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 182 US1 REG
; CURRENT APPLICATION NUMBER: US/10/154,678
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: Jpatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -19..-1
US-10-154-678-6
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Pred. No.: 0.021 Length: 78
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Percent Similarity: 56.36% Conservative: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18% Indels: 7
DB: 14 Gaps: 1
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Qy 154 ATGAAGATCTTATCTTTGCTCTCATATATGGCTCTCATCTTAGCCATGATTAGAGCTGAT 213
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Qy 214 TCATCTGAAGAGAAACGTCACAGGAAACGGAAGAAACATCATAGAGGATATTTTCAACA 273
Db 21 SerHisGluLysArgHisHisGlyTyrArgArgLysPheHis----- 34
Qy 274 TACCAGCCATATCAACGATATCCATCAATAATTCCTCTCGGTAT 318
Db 35 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48

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Search completed: April 20, 2004, 04:48:58
Job time : 73.5 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 20, 2004, 01:46:13 ; Search time 60 Seconds
(without alignments)
5586.506 Million cell updates/sec

Title: US-10-079-754A-4
Perfect score: 604
Sequence: 1 gaagatatttcagttctata.....tatcaagcataaaaaaaa 604

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	42.4	7.0	640681	4	US-09-790-988-1 Sequence 1, Appli
2	42.2	7.0	640681	4	US-09-790-988-1 Sequence 1, Appli
3	41.8	6.9	11131	4	US-10-204-708-28 Sequence 28, Appl
4	41.4	6.9	5501	4	US-10-204-708-38 Sequence 38, Appl
5	41.4	6.9	19513	4	US-10-204-708-39 Sequence 39, Appl
6	41.2	6.8	1864	4	US-10-204-708-39 Sequence 4, Appli
7	41	6.8	750	4	US-09-468-265-4 Sequence 197, App
8	41	6.8	5152	4	US-10-204-708-74 Sequence 74, Appl
9	41	6.8	11469	4	US-09-367-895-29 Sequence 29, Appl
10	41	6.8	11478	3	US-08-981-803-29 Sequence 29, Appl
11	41	6.8	11478	3	US-08-983-440-29 Sequence 29, Appl
12	40.8	6.8	6152	3	US-08-973-462-1 Sequence 1, Appli
13	40.4	6.7	465	6	5496550-9 Patent No. 5496550
14	40.4	6.7	466	6	5496550-7 Patent No. 5496550
15	40.2	6.7	6152	3	US-08-973-462-1 Sequence 1, Appli
16	40	6.6	789	4	US-09-702-705-214 Sequence 214, App
17	40	6.6	789	4	US-09-736-457-214 Sequence 214, App
18	40	6.6	789	4	US-09-614-1248-214 Sequence 214, App
19	40	6.6	789	4	US-09-671-325-214 Sequence 214, App
20	40	6.6	789	4	US-09-589-184-214 Sequence 26, Appl
21	40	6.6	6583	4	US-10-204-708-26 Sequence 26, Appl
22	40	6.6	7664	4	US-10-204-708-84 Sequence 84, Appl
23	39.8	6.6	4185	4	US-09-417-485D-7 Sequence 7, Appli
24	39.8	6.6	6107	4	US-09-482-273-47 Sequence 47, Appl
25	39.8	6.6	10640	4	US-09-417-485D-5 Sequence 5, Appli
26	39.6	6.6	10640	4	US-09-417-485D-5 Sequence 5, Appli
27	39.4	6.5	128779	4	US-09-497-855A-38 Sequence 38, Appl

28	39.2	6.5	832	4	US-09-621-976-2813 Sequence 2813, Ap
29	39	6.5	832	4	US-09-621-976-2813 Sequence 2813, Ap
30	39	6.5	19124	2	US-08-487-826B-13 Sequence 13, Appl
31	39	6.5	164976	4	US-08-916-421B-1 Sequence 1, Appli
32	38.8	6.4	19124	2	US-08-487-826B-13 Sequence 13, Appl
33	38.4	6.4	510	4	US-09-543-681A-2706 Sequence 2706, Ap
34	38.4	6.4	989	3	US-08-817-926-2 Sequence 2, Appli
35	38.4	6.4	3562	3	US-08-817-926-19 Sequence 19, Appl
36	38.4	6.4	202001	4	US-09-734-674-3 Sequence 3, Appli
37	38	6.3	1897	1	US-08-184-632-1 Sequence 1, Appli
38	38	6.3	10467	4	US-10-204-708-2 Sequence 2, Appli
39	37.8	6.3	786431	4	US-09-751-383-3 Sequence 3, Appli
40	37.6	6.2	5535	4	US-10-204-708-18 Sequence 18, Appl
41	37.4	6.2	5340	4	US-09-627-122-21 Sequence 21, Appl
42	37.4	6.2	5852	1	US-07-867-106-2 Sequence 2, Appli
43	37.2	6.2	5360	4	US-10-204-708-65 Sequence 65, Appl
44	37	6.1	840	4	US-09-134-001C-1831 Sequence 1831, Ap
45	37	6.1	2621	2	US-08-553-619B-8 Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-09-790-988-1 ; Sequence 1, Application US/09790988
; Patent No. 6632935
; GENERAL INFORMATION:
; APPLICANT: SHIGENOBU, SHUJI
; APPLICANT: WATANABE, HIDEKI
; APPLICANT: HATTORI, MASAHIRA
; APPLICANT: SAKAKI, YOSHIYUKI
; TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
; FILE REFERENCE: 0813567/0159
; CURRENT APPLICATION NUMBER: US/09/790,988
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: JP2000-107160
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 1
; LENGTH: 640681
; TYPE: DNA
; ORGANISM: Buchnera sp.
US-09-790-988-1

Query Match	7.0%	Score 42.4;	DB 4;	Length 640681;
Best Local Similarity	47.4%;	Pred. No. 1.8;	141;	Indels 0;
Matches 127;	Conservative	0;	Mismatches	0;
Gaps	0;			
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Qy	219	TGAAGAGAAACGTCACAGGAAACGGAAAACATCATAGAGGATATTTTCAACATACCA	278	
Db	518710	TTATATCCATCAAGATGAAGATATAAAGAAATATTTTGAATATTTCTGTAATTTACGA	518769	
Qy	279	GCCATATCAAGATATCCACTAAATAT	306	
Db	518770	ACTATATCCCAATTTCAATATAAAGAT	518797	

RESULT 2
US-09-790-988-1/c


```

; Sequence 1. Application US/09790988
; Patent No. 6632935
; GENERAL INFORMATION:
; APPLICANT: SHIGENOBU, SHUJI
; APPLICANT: WATANABE, HIDEMI
; APPLICANT: HATTORI, MASAHIRA
; APPLICANT: SAKAKI, YOSHIYUKI
; TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
; FILE REFERENCE: 081356/0159
; CURRENT APPLICATION NUMBER: US/09/790,988
; CURRENT FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: JP2000-107160
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 640681
; TYPE: DNA
; ORGANISM: Buchnera sp.
; US-09-790-988-1

Query Match          7.0%; Score 42.2; DB 4; Length 640681;
Best Local Similarity 47.5%; Pred. No. 2;
Matches 125; Conservative 0; Mismatches 138; Indels 0; Gaps 0;

QY      245  AAAACATCATGAGAGATATTTTCCAAATACCCGCCATATCAGCATATCCACTAAATTA 305
Db      220824  AAAACATCTTTGAAATAATCATAAATCATTAATTTTATATCTCTGTCATCAATTAATTG 220765

QY      306  TCCTCCTGCGTATCCATTTCTTAAATGCTGCTTAGTAACTACAGGACATGATTAGAGA 365
Db      220764  TTACGTTGAGATAAATTTGCACACTAGTTGTTTCATTATACATCATCGTATCTTAGTAGC 220705

QY      366  GATTTTTCACAATGATTTTTCCTACTCTTTCTGTTGTTGTTGAAAACCAATCTTTCAAATGA 425
Db      220704  TGTNTTCTAAATCAAAATTCGATTTTTCTACTTTTTTTTTTGAGCGTTTTCATATGCTTTT 220645

QY      426  ATAAACCAAGAAAAAATAAATCAGTCAAGTAGTTTGCAACAACACATCTCTGGAATCAATA 485
Db      220644  GTTACCAGGAATGCTCGATTCATTAAGAAGTAAATCCTTAATTTTTTTCATCATATGA 220585

QY      486  TCAATATTTTAAACATAATAAT 508
Db      220584  ACAATTTTATCAGCGCAAAAT 220562

```

RESULT 3
US-10-2004-708-28/c
; Sequence 28, Application US/10204708
; Patent No. 6677731
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: FIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
; TITLE OF INVENTION: by Assessing DNA Methylation
; FILE REFERENCE: 5013.1012
; CURRENT APPLICATION NUMBER: US/10/204,708
; CURRENT FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03971
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032539.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 28
; LENGTH: 11131
; TYPE: DNA

; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-204-708-28
 Query Match 6.9%; Score 41.8; DB 4; Length 11131;
 Best Local Similarity 44.8%; Pred. NO. 0.8;
 Matches 160; Conservative 0; Mismatches 197; Indels 0; Gaps 0;
 QY 244 AAAAAACATAGAGGATATTTTCACCAATACCGCCATATCAACGATATCCACTAAAT 303
 Db 9085 AACATAATTAACAAAGAACTCCGCTCCAAAAAACCACACAAAAAACAACACT 9026
 QY 304 TATCTCTCTGCGTATCCATTTCCCTTAAAAATGCTTGTAGTAATACAGGACATGATTAGA 363
 Db 9025 TAACTAATAATCTATTAATAAATACCACTTCCTCAATAACTTTTATAAATTTTACTTT 8966
 QY 364 GAGATTTTTCACATAGATTTTTCCTACTCTTCTGTTGTGTTGAAAACCATCTTTCAAT 423
 Db 8965 CAAATATACCTCAATCATTTTAACTAATTAATCTAAACCCAAATCCCTATCAATAAT 8906
 QY 424 GAATAAACAAGAAAAAATAATCAGTCAAGTAGTTGCGACACACATCTTTGGAATCAAA 483
 Db 8905 AAATTAACATACAAAAATTAACATAAATCACTTAAATAAATACAAATTTTAAACCAA 8846
 QY 484 TATCAATATTTAAACATATAATATGATAGTCTCTGAACATGCTAAATGCTTCTACTTT 543
 Db 8845 ACTCCAAAAATCTAATTTAATTTATTAACACCTTAAATCCATATAATTAATTTT 8786
 QY 544 CTTTCTCTGTCACCTTACCATGCATGCTTAAATAATGATCTATCAAGCATAAAAA 600
 Db 8785 CTCATTTTAAATAAATATTATATATATATAATACAAATCCAAAAATAAAAAACAA 8729
 RESULT 4
 US-10-204-708-38/c
 ; Sequence 38, Application US/10204708
 ; Patent NO. 6677731
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPENBROCK, Christian
 ; APPLICANT: BERLIN, Kurt
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
 ; TITLE OF INVENTION: by Assessing DNA Methylation
 ; FILE REFERENCE: 5013.1012
 ; CURRENT APPLICATION NUMBER: US/10/204,708
 ; CURRENT FILING DATE: 2003-05-06
 ; PRIOR APPLICATION NUMBER: PCT/EP01/03971
 ; PRIOR FILING DATE: 2001-04-06
 ; PRIOR APPLICATION NUMBER: DE 10019058.8
 ; PRIOR FILING DATE: 2000-04-06
 ; PRIOR APPLICATION NUMBER: DE 10019173.8
 ; PRIOR FILING DATE: 2000-04-07
 ; PRIOR APPLICATION NUMBER: DE 10032529.7
 ; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; PRIOR FILING DATE: 2000-09-01
 ; NUMBER OF SEQ ID NOS: 98
 ; SEQ ID NO 38
 ; LENGTH: 5501
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-204-708-38
 Query Match 6.9%; Score 41.4; DB 4; Length 5501;
 Best Local Similarity 49.8%; Pred. NO. 0.82; Indels 0; Gaps 0;
 Matches 105; Conservative 0; Mismatches 106;
 QY 300 AAATATCTCTCTCGTATCCATTTCTTAAAAATGCTGCTAGTAATCAAGGACATGAT 359
 Db 2041 AATTTATAAATAATATCCCAATTCCTCATTTTAACTTTTAAATTTCAAAAAATAA 1952

Qy	360	TAGAGACATTTTTCACANTGNTTTTTCCTACTCTTTCTGTGTGCTTGAACCAATCTTTC	419
Db	1361	TACATTTTATTTTAAAAAAAATAAATCTTCAAAACAAAATAATCTAAATATATCACCTAAA	1922
Qy	420	AAATGAATAAAAACAAGAAAAAAAATTCAGTCAAGTAGTTCGACACACACATATCTTGGAAAT	479
Db	1921	ATAAATTAACAACAAAATAATATAACAACAAAAAACTAAACCAATCATATATATAA	1862
Qy	480	CAATATCAATATTTTAAACATTAATATGA	510
Db	1861	TAAAAATATAAAAAATAAATAAAAAATATCA	1831

RESULT 5

```

US-10-204-708-39/c
; Sequence 39, Application US/10204708
; Patent No. 667731
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
; TITLE OF INVENTION: by Assessing DNA Methylation
; FILE REFERENCE: 5013.1012
; CURRENT APPLICATION NUMBER: US/10/204,708
; CURRENT FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03371
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 39
; LENGTH: 19513
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-39

```

Query Match	6.9%; Score 41.4; DB 4; Length 19513;
Best Local Similarity	46.9%; Pred. No. 1.2;
Matches 129; Conservative 0; Mismatches 146; Idels 0; Gaps 0;	
Qy	227 AACGTCACAGGAAACGGAAAAAACAATCATAGAGGATATTTTCAACAATACCGCCATATC 286
Db	9628 AACCTACTCAAAAACACTCAATAAANAANTCGTTAAACCTAAAAAACAANAATTACAATA 9569
Qy	287 AACGATATCCACTAAATATTCCTCTCGGTATCAATTTCCTTAAANTGCTTGTTAGTAAC 346
Db	9568 AACCAAAATCGCACCCCTATGACTCCAACTTAAATTAACAAAACAACATCCGCTCTCAAAA 9509
Qy	347 TACAGGCATGATTAGAGAGATTTTTCACAAATGATTTTTCCTACTCTTTCTGTTGTGTTG 406
Db	9508 AAAAAAAAAAAAAAAAAAAAAAATAACTACTAAAAATTTTCAAAAAATAAATATCATAT 9449
Qy	407 AAAACCATCTTTCAAATGATATAACCAAGAAAAAANAANTCAGTCAGTAGTTGCACAAC 466
Db	9448 AACCAACCTTTTCAAATTAATTTCAACCAAAAAAANAACAANAATATATACATAT 9389
Qy	467 ACATACTTGGAAATCAAAATATCAATATTTTAAAAACA 501
Db	9388 ACTTAAATTAACAATAAACAACAATAAATAATATCAT 9354

RESULT 6

US-09-468-265-4

```

1 Sequence 4, Application US/09468265
2 Patent No. 6379928
3 GENERAL INFORMATION:
4 APPLICANT: Berka, Randy M
5 APPLICANT: Cullen, Daniel
6 APPLICANT: Gray, Gregory L
7 APPLICANT: Hayenga, Kirk J
8 APPLICANT: Lawlis, Virgil B
9 TITLE OF INVENTION: Heterologous Polypeptides Expressed in Filamentous Fungi, Process
10 TITLE OF INVENTION: Making Same and Vectors for Making Same
11 FILE REFERENCE: A-42909-5
12 CURRENT APPLICATION NUMBER: US/09/468,265
13 CURRENT FILING DATE: 1999-12-10
14 PRIOR APPLICATION NUMBER: 08/484,384
15 PRIOR FILING DATE: 1995-06-07
16 PRIOR APPLICATION NUMBER: 08/284,942
17 PRIOR FILING DATE: 1994-08-02
18 PRIOR APPLICATION NUMBER: 07/413,010
19 PRIOR FILING DATE: 1989-09-25
20 PRIOR APPLICATION NUMBER: 07/163,219
21 PRIOR FILING DATE: 1988-02-26
22 PRIOR APPLICATION NUMBER: 06/882,224
23 PRIOR FILING DATE: 1986-07-07
24 PRIOR APPLICATION NUMBER: 06/771,374
25 PRIOR FILING DATE: 1985-08-29
26 NUMBER OF SEQ ID NOS: 28
27 SOFTWARE: Patentin version 3.1
28 SEQ ID NO 4
29 LENGTH: 1864
30 TYPE: DNA
31 ORGANISM: Emmericella nidulans
32 US-09-468-265-4

```

Query Match	6.8%	Score 41.2;	DB 4;	Length 1864;
Best Local Similarity	46.3%	Pred. No. 0.68;		
Matches 136;	Conservative	0;	Mismatches 158;	Indels 0; Gaps 0;
Qy	221	AAGAGAAACGTCACAGGAAACGGA	AAACATCATAGAGGATATTTTCAACAATACGACG	280
Db	1224	AAGATATCTAGCCGGTAGACAAT	ATTTAACTTAAATATATAAAATAGCTACTAA	1283
Qy	281	CATATCAAGATATCCATTAATTT	CTCTCTCGGTATCCATTTCTTAAATGCTGCTT	340
Db	1284	AATCGAATAATATTAAGAAATAG	TATTTATCTAAGATATACTTTAAATCTTTAGTAATACTA	1343
Qy	341	AGTAACTACAGGCATGATTAGAG	ATTTTTTCCACATGATTTTTTCTCTACTCTTCTTGTT	400
Db	1344	AAGAAITTAATTAATTAATTAAT	TATAAATATATAGTTGACCTTGAACCTGTTTACTAAA	1403
Qy	401	GTGTTGAAACCACTTCTCAAAT	GAATATAAAACAAGAAAAAAAATCAGTCAAGTAGTTCG	460
Db	1404	CTTTATTATTAATATTAATTAAT	TATAAATCAAGCTAAGAAATAAATTTACTTTAAGAAACTA	1463
Qy	461	CACAAACACATCTTGGAAATCAA	ATATCAATATTTTAAAAACATAATATGATAGT	514
Db	1464	TAAAAAATAGCTTAGAGAAATA	TAAAGCTCTATAAAAAATTTATTAAGATATT	1517

RESULTS

US-09-023-655-197/c
 : Sequence 197, Application US/09023655
 : Patent No. 660789
 : GENERAL INFORMATION:
 : APPLICANT: Cocks, Benjamin G.
 : APPLICANT: Susan G. Stuart
 : APPLICANT: Jeffrey J. Seilhamer
 : TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
 : TITLE OF INVENTION: EXPRESSION
 : NUMBER OF SEQUENCES: 1508
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 : STREET: 3174 PORTER DRIVE
 : CITY: PALO ALTO

STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,655
FILING DATE: HEREWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0001 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 197:
SEQUENCE CHARACTERISTICS:
LENGTH: 750 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: THF1PEB01
CLONE: 073582
US-09-023-655-197

Query Match	6.8%;	Score 41;	DB 4;	Length 750;
Best Local Similarity	51.4%;	Pred. No. 0.58;		
Matches 95;	Conservative 0;	Mismatches 90;	Indels 0;	Gaps 0;
QY	365	AGATTTTTCACAAATGATTTTTTCCTACCTCTTTCTGTGTGTTGAAACCAACATCTTTCAAATG	424	
Db	517	ACATTGATAAGATGATGCTTTTACCAATTTTTTTTGAAATATATAATTAACCTATATCAT	458	
QY	425	AATAAACAAGAAAAAATAATCATGTCACATAGTTGCGAACACACATATCTTGGAAATCAAAAT	484	
Db	457	TTTAGTAAAAAAGAAAAATATAAATGCTCTTTGCAAAAGACCACCATTCATAAAAAATT	398	
QY	485	ATCAATATTTTAAACACATAAATAAGTAGTACTCTGACACTATGTAATTGGTTTCTACTTTC	544	
Db	397	GTAATATTTTGTATGTGCAATTTCTGACATCCCTTTTACTGGGTAATTTCTGTTTAAATGC	338	
QY	545	TTTTC	549	
Db	337	CGTTC	333	

```

RESULT 8
US-10-204-708-74/c
; Sequence 74, Application US/10204708
; Patent No. 6677731
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
; TITLE OF INVENTION: by Assessing DNA Methylation
; FILE REFERENCE: 5013.1012
; CURRENT APPLICATION NUMBER: US/10/204,708
; CURRENT FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03971
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8

```

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; PRIOR FILLING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILLING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILLING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 74
; LENGTH: 5152
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-74

Query Match          6.8%; Score 41; DB 4; Length 5152;
Best Local Similarity 50.2%; Pred. No. 1;
Matches 101; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

Qy      404  TTGAAAACCATCTTTTCAAATGAATAAACAAGAAAAAATAATACGTCAAGTAGTTGCAC 463
Db      4931  TTTTAAAAATATTATTACCTAAATTTAAAAATTCCTTTTAAACAAAACATAATATATAATATTCATC 4872

Qy      464  AACACATACCTTGGAAATCAAAATATCAATATTTTAAAAACAATAATATGATGCTCTCGAACT 523
Db      4871  AAAAACTATAAAAAATAAATAAACATATATTTTTAAACAATAAACTACCTTATTTTAAAAACT 4812

Qy      524  ATGTAATTGGTTTCTACTTTCCTTCTCTGTCACCTACCATGCATGCTTAAATAAATTGAT 583
Db      4811  ATTACTCATTTATTTCCTATTAACCTTAACCTAATATATAAATATACCTTAAAAAAT 4752

Qy      584  CTATCAAGCATAAAAAATAAAAA 604
Db      4751  TAATAATCCATAAAACCAAAA 4731

```

RESULT 9
 US-09-367-895-29/c
 ; Sequence 29, Application US/09367895
 ; Patent No. 6483009
 ; GENERAL INFORMATION:
 ; APPLICANT: FOULSEN, PETER
 ; TITLE OF INVENTION: ANTISENSE INTRON INHIBITION OF STARCH BRANCHING ENZYME
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: 078883/0112
 ; CURRENT APPLICATION NUMBER: US/09/367,895
 ; CURRENT FILING DATE: 1999-12-08
 ; PRIOR APPLICATION NUMBER: PCT/IB98/00270
 ; PRIOR FILING DATE: 1998-02-23
 ; PRIOR APPLICATION NUMBER: GB/9703663.6
 ; PRIOR FILING DATE: 1997-02-21
 ; PRIOR APPLICATION NUMBER: GB/9706060.2
 ; PRIOR FILING DATE: 1997-03-24
 ; NUMBER OF SEQ ID NOS: 43
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 29
 ; LENGTH: 11469
 ; TYPE: DNA
 ; ORGANISM: Solanum tuberosum
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (2132..2209, 3375..3494, 3812..4033, 4538..4606,
 ; LOCATION: 4753..5022, 5241..6146, 6345..6461, 6670..6732,
 ; LOCATION: 7026..7133, 7510..7611, 7784..7852, 7998..8078,
 ; LOCATION: 8321..8437, 9235..9630)
 US-09-367-895-29

```

Query Match      6.8%; Score 41; DB 4; Length 11469;
Best Local Similarity 51.4%; Pred. No. 1.3;
Matches 95; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

Qy 368 TTTTTCACAAATGATTTTCTACTCTCTTCCTGTTGTGAAACCAATCTTTCAAAATGAAT 427
Db 11372 TTTGACATCTTTTTCGTGTATAAATTTCTTTCTTTTCAATAACAACCAACAACAAATGAAG 1131

```

QY	428	AAAACAAGAGAAAAAATCAGTCAAGTAGTTGCGACACACATATCTGGAATCAAAATATC	487
Db	11312	AAAAACAATGAAGAAAAATCAATAGAAAAAGAGGAAGATTTTCATACTCATTTGAAAGCGAA	11353
QY	488	AATATTTTAAAAACATAATAATGATAGTCTCTGAACTATGTAAATGGTTTCTACTTTCTTT	547
Db	11252	AATCTACTAGAGAAGATGATGATGAACTTTCAATTAGTGCACCCCTCGTT	11193
QY	548	TCTCT	552
Db	11192	CTACT	11188

RESULT 10

```

US-08-981-803-29/c
; Sequence 29, Application US/08981803
; Patent No. 6147279
; GENERAL INFORMATION:
; APPLICANT: POULSEN, PETER
; TITLE OF INVENTION: INHIBITION OF GENE EXPRESSION
; FILE REFERENCE: 674509-2004
; CURRENT APPLICATION NUMBER: US/08/981,803
; CURRENT FILING DATE: 1997-04-17
; EARLIER APPLICATION NUMBER: PCT/EP96/03052
; EARLIER FILING DATE: 1996-07-12
; EARLIER APPLICATION NUMBER: 9514435.8
; EARLIER FILING DATE: 1995-07-14
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 11478
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-08-981-803-29

```

Query Match	6.8%	Score 41;	D3 3;	Length 11478;
-------------	------	-----------	-------	---------------

Best Local Similarity 51.4%; Pred. No. 1.3;
Matches 95: Conservative 0: Mismatches 90: Indels 0: Gaps 0:

QY	368	TTTTTCAACATGATTTTTCCTACTCTTCTCTGTGTGTGAAAACCATCTTTTCAATGAAT	427
Dh	11381	TTTTGCATCTCTTTTCTGTGTATAAAATTTTCTTTTCTTTTCAATATACAAACACAAACATGAAG	11322

QY 428 AAAACAAAGAAAAAATCAGTCAAGTAGTTGCACACACATACCTTGGAAATCAAAATATC 487

DB
DB
QY

11321 AATTAATTAAACATATAAAGATAGTCTCTGAACACTAGTAATTGGTTTCTACTTTCTTT 547

Db 11261 AATCTACTAGAGAAGATGATGATGAACCTTTGAAACTTTTCATTAGTAGACACCCCTTCGTT 112020

Qy	548	TCTCT	552
Db	11201	CTACT	11197

RESULT 11

```

US-08-983-440-29/c
; Sequence 29, Application US/08983440
; Patent No. 6232122
; GENERAL INFORMATION:
; APPLICANT: POULSEN, Peter
; TITLE OF INVENTION: INHIBITION OF GENE EXPRESSION
; FILE REFERENCE: 674509-2003
; CURRENT APPLICATION NUMBER: US/08/983,440
; CURRENT FILING DATE: 1998-04-17
; EARLIER APPLICATION NUMBER: 9514437.4
; EARLIER FILING DATE: 1995-07-14
; EARLIER APPLICATION NUMBER: PCT/EP96/03053
; EARLIER FILING DATE: 1996-07-12
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn Ver. 2.0

```

```

; SEQ ID NO 29
;
; LENGTH: 11478
;
; TYPE: DNA
;
; ORGANISM: Solanum tuberosum
;
; FEATURE:
;
; NAME/KEY: variation
;
; LOCATION: (1)..(11478)
;
; OTHER INFORMATION: B stands for G or C or T/U
;
; FEATURE:
;
; NAME/KEY: variation
;
; LOCATION: (1)..(11478)
;
; OTHER INFORMATION: R stands for G or A
;
; FEATURE:
;
; NAME/KEY: variation
;
; LOCATION: (1)..(11478)
;
; OTHER INFORMATION: K stands for G or T/U
;
; FEATURE:
;
; NAME/KEY: variation
;
; LOCATION: (1)..(11478)
;
; OTHER INFORMATION: W stands for A or T/U
;
; FEATURE:
;
; NAME/KEY: variation
;
; LOCATION: (1)..(11478)
;
; OTHER INFORMATION: M stands for A or C
;
; US-08-983-440-29

```

Query Match 6.8%: Score 41; DB 3; Length 11478;

Query Match	Best Local Similarity	Pred. No. 1.3;	Mismatches	Indels	Gaps
95: Conservative	51.4%;	0:	90:	0:	0:

368 TTTTTCACAATGATTTTTCCTACTCTTTCTGTTGTGAAACCATCTTTCAAATGAAT 427

11381 TTTGACATCTTTTCTGTATATAATTTCTTTCTTTCAATACACCAACCAATGAAG 113222
 Db

[illegible]

DD	11321	AAATACATGAAGGATTTTCTATGTTGGGAGGAGGATTTCTATGTTCTACTTCTTT
QY	488	AATATTTTAAACATANFAATGATAGTCTCTGAACATATGTAATTGGTTTCTACTTCTTT

Db 11261 AATCTACTAGAAGAAGATGATGATGAACCTTTGAAACTTTTCATTAGTGACACCTTCGTT 11202

Qy	548	TCTCT	552
Db	11201	CTACT	11197

RESULT 12

```

US-08-973-462-1
; Sequence 1, Application US/08973462B
; Patent No. 6191270
; GENERAL INFORMATION:
; APPLICANT: DRUILHE, PIERRE
; APPLICANT: DAUBERSIES, PIERRE
; TITLE OF INVENTION: MALARIAL PRE-BRYTHOCYTTIC STAGE POLYPEPTIDE MOLECULES
; FILE REFERENCE: 0660-0125-0 PCT
; CURRENT APPLICATION NUMBER: US/08/973,462B
; CURRENT FILING DATE: 1998-02-06
; EARLIER APPLICATION NUMBER: PCT/FR96/00894
; EARLIER FILING DATE: 1996-06-12
; EARLIER APPLICATION NUMBER: FR 95/07007
; EARLIER FILING DATE: 1995-06-13
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 6152
; TYPE: DNA
; ORGANISM: P. falciparum
US-08-973-462-1

```

Query Match 6.8%; Score 40.8; DB 3; Length 6152;

Query Match	0	
Best Local Similarity	53.0%	Pred. No. 1.2;
Matches	87; Conservative	0; Mismatches
		77; Indels
		0; Gaps

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QY 420 AATGAATAAACAAAGAGAAAAAATCAGTCAGTAGTGGACACACATACCTGGAAAT 479
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QY 480 CAAATATCAATATTTTAAACATAAATAAGTAGTCTCTGAAGTATGTAATGGTTTCTA 539
Db 369 TATATATATATATATATATATATATATATATATATATATATATATATATAT 428
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RESULT 13
5496550-9
; Patent No. 5496550
; APPLICANT: WALLACH, MICHAEL; PUGATSCH, THEA; MENCHER, DAVID
; TITLE OF INVENTION: METHOD OF REDUCING THE OUTPUT OF EIMERIA
; OOCYSTS FROM A NEWBORN CHICK
; NUMBER OF SEQUENCES: 10
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/108,763
; FILING DATE: 17-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 642,219
; FILING DATE: 16-JAN-1991
; APPLICATION NUMBER: 310,603
; FILING DATE: 14-FEB-1989
; APPLICATION NUMBER: 155,245
; FILING DATE: 12-FEB-1988
; APPLICATION NUMBER: 896,611
; FILING DATE: 14-AUG-1986
; SEQ ID NO: 9:
; LENGTH: 465
5496550-9

Query Match 6.7%; Score 40.4; DB 6; Length 465;
Best Local Similarity 51.7%; Pred. No. 0.71;
Matches 92; Conservative 0; Mismatches 86; Indels 0; Gaps 0;

QY 425 AATAAACAAGAAAAAATCAGTCAGTAGTGGACACACATACCTGGAAATCAAAAT 484
Db 149 AAGCAAGAACAACCTCTTATAGACATGATGATTAATAACACATATAATTAATA 208
QY 485 ATCAATATTTTAAACATAATAATGATGCTCTGAACTATGTAATGGTTTCTACTTTC 544
Db 209 ATAAATAAATAAATAAATAATTTATTTATATATATATTTATTTATTTATTTT 268
QY 545 TTTTCTCTGCATCCATGCATGCTTAATAAATGATCTATCAAGCATAAAAAAA 602
Db 269 GTGCTTTGTGATTCATGTCATGATATTCACCTCAAAAAGCCGCAAAAAATA 326

RESULT 14
5496550-7
; Patent No. 5496550
; APPLICANT: WALLACH, MICHAEL; PUGATSCH, THEA; MENCHER, DAVID
; TITLE OF INVENTION: METHOD OF REDUCING THE OUTPUT OF EIMERIA
; OOCYSTS FROM A NEWBORN CHICK
; NUMBER OF SEQUENCES: 10
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/108,763
; FILING DATE: 17-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 642,219
; FILING DATE: 16-JAN-1991
; APPLICATION NUMBER: 310,603
; FILING DATE: 14-FEB-1989
; APPLICATION NUMBER: 155,245
; FILING DATE: 12-FEB-1988
; APPLICATION NUMBER: 896,611
; FILING DATE: 14-AUG-1986
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; SEQ ID NO: 7:
; LENGTH: 466
5496550-7
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Query Match 6.7%; Score 40.4; DB 6; Length 466;
Best Local Similarity 51.7%; Pred. No. 0.71;
Matches 92; Conservative 0; Mismatches 86; Indels 0; Gaps 0;

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Db 210 ATAAATAAATAAATAAATAATTTATTTATATATATTTATTTATTTATTTT 269
QY 545 TTTTCTCTGCATCCATGCATGCTTAATAAATGATCTATCAAGCATAAAAAAA 602
Db 270 GTGCTTTGTGATTCATGTCATGATATTCACCTCAAAAAGCCGCAAAAAATA 327
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RESULT 15

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US-08-973-462-1/c
; Sequence 1, Application US/08973462B
; Patent No. 6191270
; GENERAL INFORMATION:
; APPLICANT: DRUILHE, PIERRE
; APPLICANT: DAUBERSIES, PIERRE
; TITLE OF INVENTION: MALARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOLECULES
; FILE REFERENCE: 0660-0125-0 PCT
; CURRENT APPLICATION NUMBER: US/08/973.462B
; CURRENT FILING DATE: 1998-02-06
; EARLIER APPLICATION NUMBER: PCT/FR96/00894
; EARLIER FILING DATE: 1996-06-12
; EARLIER APPLICATION NUMBER: FR 95/07007
; EARLIER FILING DATE: 1995-06-13
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 1
; LENGTH: 6152
; TYPE: DNA
; ORGANISM: P. falciparum
US-08-973-462-1
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Query Match 6.7%; Score 40.2; DB 3; Length 6152;
Best Local Similarity 56.4%; Pred. No. 1.6;
Matches 75; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 420 AATGAATAAACAAAGAAAAAATCAGTCAGTAGTGGACACACATACCTGGAAAT 479
Db 440 AAAAAATAATATAAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATA 381
QY 480 CAAATATCAATATTTTAAACATAATAATGATGATGCTCTGAACTATGTAATGGTTTCTA 539
Db 380 TATATATATATATATATATATATATATATATATATATATATATATATATATAT 321
QY 540 CTTTCTTTTCTCT 552
Db 320 TTTTITTTTTTTT 308
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Search completed: April 20, 2004, 03:04:35
Job time : 66 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 20, 2004, 03:00:59 ; Search time 333 Seconds
(without alignments)

8116.057 Million cell updates/sec

Title: US-10-079-754A-4
Perfect score: 604
Sequence: 1 gaagatttcagttcttata.....tatcaagcataaaaaaaaaa 604

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Gapop 10.0 , Gapext 1.0

Searched: 2890132 seqs, 2237290429 residues

Total number of hits satisfying chosen parameters: 5780264

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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19: /cgn2_6/prodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	448.2	74.2	585	14	US-10-079-754A-2
4	423.4	70.1	525	14	US-10-079-754A-6
5	238.4	39.5	267	14	US-10-079-754A-15
6	238.4	39.5	267	14	US-10-079-623-200
7	115	19.0	869	14	US-10-079-754A-3
8	87	14.4	96	14	US-10-079-754A-5
9	70.4	11.7	438	10	US-09-992-600A-5
10	70.4	11.7	438	10	US-09-924-340-5
11	70.4	11.7	438	10	US-09-992-095B-5
12	70.4	11.7	438	10	US-09-999-570-5
13	70.4	11.7	438	15	US-10-000-489-5
14	70.4	11.7	438	15	US-10-000-986-5

15	70.4	11.7	438	15	US-10-154-678-5	Sequence 5, Appli
16	70.4	11.7	438	15	US-10-001-142-5	Sequence 5, Appli
17	67.6	11.2	678	13	US-10-210-172-167	Sequence 167, App
18	67.6	11.2	1584	16	US-10-104-047-1193	Sequence 1193, Ap
19	59.2	9.8	1521	13	US-10-027-632-263847	Sequence 263847,
20	59.2	9.8	1521	13	US-10-027-632-263848	Sequence 263848,
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25	53.6	8.9	13449	15	US-10-311-453-1358	Sequence 1358, Ap
26	52	8.6	3673778	15	US-10-312-841-2	Sequence 2, Appli
27	51.2	8.5	6255	15	US-10-311-455-934	Sequence 934, App
28	51	8.4	12507	15	US-10-311-455-271	Sequence 271, App
29	51	8.4	12578	13	US-10-221-714A-381	Sequence 381, App
30	51	8.4	3673778	15	US-10-312-841-1	Sequence 1, Appli
31	49.8	8.2	7106	15	US-10-311-455-1451	Sequence 1451, Ap
32	49.4	8.2	5945	15	US-10-311-455-57	Sequence 57, Appl
33	49.4	8.2	16994	15	US-10-311-455-962	Sequence 962, App
34	49	8.1	73334	15	US-10-311-455-2098	Sequence 2098, Ap
35	48	7.9	669	13	US-10-424-599-141641	Sequence 141641,
36	47.8	7.9	6782	15	US-10-311-455-750	Sequence 750, App
37	47.6	7.9	6274	13	US-10-221-714A-43	Sequence 43, Appl
38	47.6	7.9	6274	15	US-10-172-086-19	Sequence 19, Appl
39	47.6	7.9	19659	15	US-10-311-455-739	Sequence 739, App
40	47.2	7.8	6155	15	US-10-240-453-236	Sequence 236, App
41	47	7.8	490	10	US-09-814-353-4552	Sequence 4552, Ap
42	47	7.8	490	10	US-09-814-353-10853	Sequence 10853, A
43	47	7.8	11691	15	US-10-311-455-2214	Sequence 2214, Ap
44	47	7.8	15732	15	US-10-239-676-95	Sequence 95, Appl
45	47	7.8	15732	15	US-10-240-453-107	Sequence 107, App

ALIGNMENTS

RESULT 1
US-10-079-754A-4
Sequence 4, Application US/10079754A
Publication No. US20020164625A1
GENERAL INFORMATION:
APPLICANT: Grigor, Murray R.
APPLICANT: Molenaar, Adrian J.
APPLICANT: Davis, Stephen R.
TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use
FILE REFERENCE: 11000.1068
CURRENT APPLICATION NUMBER: US/10/079.754A
CURRENT FILING DATE: 2002-02-19
PRIOR APPLICATION NUMBER: US 09/699,146
PRIOR FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: US 60,162,701
PRIOR FILING DATE: 1999-10-29
PRIOR APPLICATION NUMBER: US 09/644,190
PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: US 60,150,330
PRIOR FILING DATE: 1999-08-23
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 604
TYPE: DNA
ORGANISM: Bovine
US-10-079-754A-4

Query Match 100.0%; Score 604; DB 14; Length 604;
Best Local Similarity 100.0%; Pred. No. 5.3e-128; Indels 0; Gaps 0;
Matches 604; Conservative 0; Mismatches 0;
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DB 1 GAAGTATTTTCAGTTCTTATAAGATCTCATACTGATGTATTAACAAACAAATGAA 60

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QY 121 AATTTTCATCTTTTCATGACTGGACTCCACCAAAATGAAGATCTTTTATCTTTGCTTCATT 180
Db 121 AATTTTCATCTTTTCATGACTGGACTCCACCAAAATGAAGATCTTTTATCTTTGCTTCATT 180
QY 181 ATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAGAGAAACGTCACAGAAA 240
Db 181 ATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAGAGAAACGTCACAGAAA 240
QY 241 CGGAAAAAACAATCATAGAGGATATTTTCAACAATACCCAGCCATATCAACGATATCCACTA 300
Db 241 CGGAAAAAACAATCATAGAGGATATTTTCAACAATACCCAGCCATATCAACGATATCCACTA 300
QY 301 AATTTATCTCTCGGTATCCATTTCTTTAAATGCTCTTAGTAACTACAGGACATGATT 360
Db 301 AATTTATCTCTCGGTATCCATTTCTTTAAATGCTCTTAGTAACTACAGGACATGATT 360
QY 361 AGAGAGATTTTTCACAATGATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA 420
Db 361 AGAGAGATTTTTCACAATGATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA 420
QY 421 AATGAATAAAACAAAGAAAAAAATCAGTCAAGTAGTTGCACAACACATCTTGGATC 480
Db 421 AATGAATAAAACAAAGAAAAAAATCAGTCAAGTAGTTGCACAACACATCTTGGATC 480
QY 481 AATATATCAATATTTTAAACATATATGATGATGATGATGATGATGATGATGATGATGAT 540
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QY 541 TTTCTTTTCTCTGTCACCTACCATGCTTAAATAAATGATCTATCAAGCATATAAAAA 600
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QY 601 AAAA 604
Db 601 AAAA 604

RESULT 2
US-10-079-754a-1
; Sequence 1, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 505
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754a-1

Query Match 77.1%; Score 465.4; DB 14; Length 505;

Best Local Similarity 99.8%; Pred. No. 2.2e-96;
Matches 466; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 138 CTGACTCCACCAATATGAAGATCTTTTATCTTTGCTCTTATTTGCTCTCATCTCTAGC 197
Db 28 CAGGACTCCACCAATATGAAGATCTTTTATCTTTGCTCTTATTTGCTCTCATCTCTAGC 87
QY 198 CATGATTAGAGCTGATTCATCTGAAGAGAAACGTCACAGGAAACGCGAAAAACATCATAG 257
Db 88 CATGATTAGAGCTGATTCATCTGAAGAGAAACGTCACAGGAAACGCGAAAAACATCATAG 147
QY 258 AGGATATTTTCAACATACACGACCATATCAACGATATCCACTAAATATCTCTCTGCGTA 317
Db 148 AGGATATTTTCAACATACACGACCATATCAACGATATCCACTAAATATCTCTCTGCGTA 207
QY 318 TCCATTTCTTTAAATGCTGCTTAGTAACTACAGGACATGATTAGAGAGATTTTTCACAA 377
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QY 378 TGAATTTCTCTACTCTTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 437
Db 268 TGAATTTCTCTACTCTTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 327
QY 438 AAAAAAATCAGTCAAGTAGTTGCACAACACATCTTGGAAATCAAAATATCAATATTTTAA 497
Db 328 AAAAAAATCAGTCAAGTAGTTGCACAACACATCTTGGAAATCAAAATATCAATATTTTAA 387
QY 498 AACATAAATGATAGTCTCTGAACTATGTAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 557
Db 388 AACATAAATGATAGTCTCTGAACTATGTAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 447
QY 558 TTACCATGATGCTTAAATAAATGATCTATCAAGCATATAAAAAA 604
Db 448 TTACCATGATGCTTAAATAAATGATCTATCAAGCATATAAAAAA 494

RESULT 3
US-10-079-754A-2
; Sequence 2, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 585
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-2

Query Match 74.2%; Score 448.2; DB 14; Length 585;
Best Local Similarity 99.3%; Pred. No. 2e-92;
Matches 450; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 138 CTGACTCCACCAATATGAAGATCTTTTATCTTTGCTCTTATTTGCTCTCATCTCTAGC 197
Db 133 CAGGACTCCACCAATATGAAGATCTTTTATCTTTTATCTTTTATCTTTTATCTTTTATCTTT 192

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Qy	258	AGGATATATTTCAACAAATACCGCCATATCAACGATATCCATAAATTATCCTCTCTCGGTA	317
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Qy	318	TCCATTTCCCTTAAATGCTGTAGTAATCAACGACATGATTAGAGAGATTTTTTCACAA	377
Db	313	TCCATTTCCCTTAAATGCTGTAGTAATCAACGACATGATTAGAGAGATTTTTTCACAA	372
Qy	378	TGATTTTTTCCTACTCTTTCTGTGTGGTGGAAAAACAATCTTCAAAATGAATAAAAACAAGA	437
Db	373	TGATTTTTTCCTACTCTTTCTGTGTGGTGGAAAAACAATCTTCAAAATGAATAAAAACAAGA	432
Qy	438	AAAAAAAATCAGTCAAGTAGTTGCACACACATACCTTGGAAATCAAAATCAAAATTTTAA	497
Db	433	AAAAAAAATCAGTCAAGTAGTTGCACACACATACCTTGGAAATCAAAATCAAAATTTTAA	492
Qy	498	AACATATAATGATAGTCTCTGAACTATGTAAATTTGGTTTCTACTTTCTTTTCTCTCTGCAC	557
Db	493	AACATATAATGACAGTCTCTGAACTATGTAAATTTGGTTTCTACTTTCTTTTCTCTCTGCAC	552
Qy	558	TTACCATGATCGCTTAAATAAATTGATCTATCAA	590
Db	553	TTACCATGATCGCTTAAATAAATTGATCTATCAA	585

RESULT 4
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; Sequence 6, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 525
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-6

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Qy	346	CTACAGAGACATGATTAGAGAGATTTTTACAAATGAATTTTTCTACTCTTTCTGTTGTGTT	405
Db	267	CTACAGGCATGATTAGAGATTTTTACCAATGATTTTTCTACTCTTTCTGTTGTGTT	326
Qy	406	GAATAACCATCTTTCAAATGAAATAAAACAAAGAAAAAAAATCAGTCAAGTAGTTGCAACA	465
Db	327	GAATAACCATCTTTCAAATGAAATAAAACAAAGAAAAAAAATCAGTCAAGTAGTTGCAACA	386
Qy	466	CACATACTTGGAAATCAAAATATCAATATTTTAAAAACATAAATGATAGTCTCTGAACTAT	525
Db	387	CACATACTTGGAAATCAAAATATCAATATTTTAAAAACATAAATGATAGTCTCTGAACTAT	446
Qy	526	GTAATGGTTTCTACTCTTTCTCTGTCACCTACCATGATGCTTAATAAATGATCT	585
Db	447	GTAATGGTTTCTACTCTTTCTCTGTCACCTACCATGATGCTTAATAAATGATCT	506
Qy	586	ATCAAGCATAAAAAAA 604	
Db	507	ATCAAGCATAAAAAAA 525	

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RESULT 5
US-10-079-754A-15
; Sequence 15, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: G-igor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT PILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-15

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QY 318 TCCATTTCCTTAAATGCTGCTTAGTAACCTACAGGACATGATTAGAGAGATTTTTCACAA 377
Db 208 TCCATTTCCTTAAATGCTGCTTAGTAACCTACAGGACATGATTAGAGAGATTTTTCACAA 267

RESULT 6

US-10-079-623-200
; Sequence 200, Application US/10079623
; Publication NO. US20020169302A1
; GENERAL INFORMATION:
; APPLICANT: Havukkala, Ilkka J.
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; TITLE OF INVENTION: Compositions isolated from bovine
; TITLE OF INVENTION: mammary gland and methods for their use.
; FILE REFERENCE: 11000.1044C3
; CURRENT APPLICATION NUMBER: US/10/079,623
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 370
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 200
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-623-200

Query Match 39.5%; Score 238.4; DB 14; Length 267;
Best Local Similarity 99.6%; Pred. No. 1.1e-44;
Matches 239; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 138 CTGACTCCACCAATATGAAGATCTTTATCTTTGTTTCATTATGCTCTCATCTCCTAGC 197
Db 28 CAGGACTCCACCAATATGAAGATCTTTATCTTTGTTTCATTATGCTCTCATCTCCTAGC 87
QY 198 CATGATTAGAGCTGATTCATCTGAGAGAACGTCACAGGAACGGAAAAACATCATAG 257
Db 88 CATGATTAGAGCTGATTCATCTGAGAGAACGTCACAGGAACGGAAAAACATCATAG 147
QY 258 AGGATATTTTCAACAATACCAGCATATCAACGATATCCACTAAATATCTCTCTCGTA 317
Db 148 AGGATATTTTCAACAATACCAGCATATCAACGATATCCACTAAATATCTCTCTCGTA 207
QY 318 TCCATTTCCTTAAATGCTGCTTAGTAACCTACAGGACATGATTAGAGAGATTTTTCACAA 377
Db 208 TCCATTTCCTTAAATGCTGCTTAGTAACCTACAGGACATGATTAGAGAGATTTTTCACAA 267

RESULT 7

US-10-079-754A-3
; Sequence 3, Application US/10079754A
; Publication NO. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3
; LENGTH: 869
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-3

Query Match 19.0%; Score 115; DB 14; Length 869;
Best Local Similarity 92.4%; Pred. No. 3.1e-16;
Matches 121; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 138 CTGACTCCACCAATATGAAGATCTTTATCTTTGTTTCATTATGCTCTCATCTCCTAGC 197
Db 58 CAGGACTCCACCAATATGAAGATCTTTATCTTTGTTTCATTATGCTCTCATCTCCTAGC 115
QY 198 CATGATTAGAGCTGATTCATCTGAGAGAACGTCACAGGAACGGAAAAACATCATAG 257
Db 116 CATGATTAGAGCTGATTCATCTGAGAGAACGTCACAGGAACGGAAAAACATCATGT 175
QY 258 AGGATATTTTTC 268
Db 176 ATGATTCTCTC 186

RESULT 8

US-10-079-754A-5
; Sequence 5, Application US/10079754A
; Publication NO. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 96
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-5

Query Match 14.4%; Score 87; DB 14; Length 96;
Best Local Similarity 94.7%; Pred. No. 2.6e-10;
Matches 90; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 265 TTTCACCAATACCAGCCATATCAACGATATCCACTAAATATCTCTCTCGTATCCATTT 324
Db 1 TTTCACCAATACCAGCCATATCAACGATATCCACTAAATATCTCTCTCGTATCCATTA 60
QY 325 CTTTAAATGCTGCTTAGTAACCTACAGGACATGAT 359
Db 61 TCTTAAATGCTGCTTAGTAACCTACAGGACATGAT 95

RESULT 9

US-09-992-600A-5
; Sequence 5, Application US/09992600A
; Publication NO. US20030027161A1
; GENERAL INFORMATION:
; APPLICANT: Benjanin, Stephane
; APPLICANT: Tanaka, Hiroaki

```

; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US4.DIV
; CURRENT APPLICATION NUMBER: US/09/992,600A
; CURRENT FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: Jpatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 84..317
; FEATURE:
; NAME/KEY: polyA signal
; LOCATION: 397..402
; FEATURE:
; NAME/KEY: polyA site
; LOCATION: 423..438
; US-09-924-600A-5

Query Match          11.7%; Score 70.4; DB 10; Length 438;
Best Local Similarity 69.9%; Pred. No. 3.4e-06;
Matches 95; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

Qy 120 GAATTCATCTTTCATGACTGACTCCACCAATATGAAGATCTTATCTTGTCTTCAT 179
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 50 GACTCTCTCTTTCAGTAAAGGACTCAGCCAACTATGAAGTTTGTCTTGTCTTAGT 109

Qy 180 TATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAAGAGAAACGTACAGGAA 239
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 110 CTGGCTCTCATGATTTCCATGATTAGCGCTGATTCACATGAAGAGACATCATGGGTA 169

Qy 240 ACGGAAAAAATCAT 255
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 170 TAGAAGAAAAATTCAT 185

RESULT 10
US-09-924-340-5
; Sequence 5, Application US/09924340
; Publication No. US20030027248A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US2.REG
; CURRENT APPLICATION NUMBER: US/09/924,340
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: Jpatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 84..317
; FEATURE:
; NAME/KEY: polyA signal
; LOCATION: 397..402
; FEATURE:
; NAME/KEY: polyA site
; LOCATION: 423..438
; US-09-924-600A-5
```

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; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: Jpatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; NAME/KEY: CDS
; LOCATION: 84..317
; NAME/KEY: 3'UTR
; LOCATION: 318..438
; NAME/KEY: polyA signal
; LOCATION: 397..402
; NAME/KEY: polyA site
; LOCATION: 423..438
; US-09-924-340-5

Query Match          11.7%; Score 70.4; DB 10; Length 438;
Best Local Similarity 69.9%; Pred. No. 3.4e-06;
Matches 95; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

Qy 120 GAATTCATCTTTCATGACTGACTCCACCAATATGAAGATCTTATCTTGTCTTCAT 179
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 50 GACTCTCTCTTTCAGTAAAGGACTCAGCCAACTATGAAGTTTGTCTTGTCTTAGT 109

Qy 180 TATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAAGAGAAACGTACAGGAA 239
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 110 CTGGCTCTCATGATTTCCATGATTAGCGCTGATTCACATGAAGAGACATCATGGGTA 169

Qy 240 ACGGAAAAAATCAT 255
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 170 TAGAAGAAAAATTCAT 185

RESULT 11
US-09-992-095B-5
; Sequence 5, Application US/0992095B
; Publication No. US20030157485A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US5.DIV
; CURRENT APPLICATION NUMBER: US/09/992,095B
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: Jpatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 84..317
; FEATURE:
; NAME/KEY: polyA signal
; LOCATION: 397..402
; FEATURE:
; NAME/KEY: polyA site
; LOCATION: 423..438
; US-09-924-340-5
```

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/ FEATURE:
/ NAME/KEY: 3'UTR
/ LOCATION: 318..438
/ FEATURE:
/ NAME/KEY: polyA_signal
/ LOCATION: 397..402
/ FEATURE:
/ NAME/KEY: polyA_site
/ LOCATION: 423..438
US-09-992-095B-5

Query Match      11.7%; Score 70.4; DB 10; Length 438;
Best Local Similarity 69.9%; Pred. No. 3.4e-06;
Matches 95; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 120 GAATTTTCATCTTTCATGACCTGACCTCCACCAATATGAAGATCTTTATCTTTGCTTTTCAT 179
Db 50 GACTCTCTCTTGTAGTAAAGGACTCAGCCAACTATGAAGTTTTTGTCTTTGCTTTAGT 109

QY 180 TATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAGAGAAACGTCACAGGAA 239
Db 110 CTGGCTCTCATGATTTCCTCATGATTAGGCTGATTCATGATGAAAGAGACATCATGGGTA 169

QY 240 ACGGAAAAAACATCAT 255
Db 170 TAGAAGAAAAATTCAT 185

RESULT 13
US-10-000-489-5
; Sequence 5, Application US/10000489
; Publication No. US20030092011A1
; GENERAL INFORMATION:
; APPLICANT: Benjanin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US6.DIV
; CURRENT APPLICATION NUMBER: US/10/000,489
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; NAME/KEY: CDS
; LOCATION: 84..317
; NAME/KEY: 3'UTR
; LOCATION: 318..438
; NAME/KEY: polyA_signal
; LOCATION: 397..402
; NAME/KEY: polyA_site
; LOCATION: 423..438
US-10-000-489-5

Query Match      11.7%; Score 70.4; DB 15; Length 438;
Best Local Similarity 69.9%; Pred. No. 3.4e-06;
Matches 95; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 120 GAATTTTCATCTTTCATGACCTGACCTCCACCAATATGAAGATCTTTATCTTTGCTTTTCAT 179
Db 50 GACTCTCTCTTGTAGTAAAGGACTCAGCCAACTATGAAGTTTTTGTCTTTGCTTTAGT 109

QY 180 TATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAGAGAAACGTCACAGGAA 239
Db 110 CTGGCTCTCATGATTTCCTCATGATTAGGCTGATTCATGATGAAAGAGACATCATGGGTA 169

QY 240 ACGGAAAAAACATCAT 255
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RESULT 12

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US-09-999-570-5
; Sequence 5, Application US/09999570
; Publication No. US20030170628A1
; GENERAL INFORMATION:
; APPLICANT: Benjanin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: G-091US08DIV
; CURRENT APPLICATION NUMBER: US/09/999,570
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; NAME/KEY: CDS
; LOCATION: 84..317
; NAME/KEY: 3'UTR
; LOCATION: 318..438
; NAME/KEY: polyA_signal
; LOCATION: 397..402
; NAME/KEY: polyA_site
; LOCATION: 423..438
US-09-999-570-5
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Db	170 TAGAAGAAAAATTCAT	185			
 RESULT 14 US-10-000-986-5 ; Sequence 5, Application US/10000986 ; Publication No. US20030096247A1 ; GENERAL INFORMATION: ; APPLICANT: Benjamin, Stephane ; APPLICANT: Tanaka, Hiroaki ; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF ; FILE REFERENCE: 91.US9.DIV ; CURRENT APPLICATION NUMBER: US/10/000,986 ; CURRENT FILING DATE: 2001-11-14 ; PRIOR APPLICATION NUMBER: US 09/924,340 ; PRIOR FILING DATE: 2001-08-06 ; PRIOR APPLICATION NUMBER: PCT/IB01/01715 ; PRIOR FILING DATE: 2001-08-06 ; PRIOR APPLICATION NUMBER: US 60/305,456 ; PRIOR FILING DATE: 2001-07-13 ; PRIOR APPLICATION NUMBER: US 60/302,277 ; PRIOR FILING DATE: 2001-06-29 ; PRIOR APPLICATION NUMBER: US 60/298,698 ; PRIOR FILING DATE: 2001-06-15 ; PRIOR APPLICATION NUMBER: US 60/293,574 ; PRIOR FILING DATE: 2001-05-25 ; NUMBER OF SEQ ID NOS: 112 ; SOFTWARE: JPatent ; SEQ ID NO 5 ; LENGTH: 438 ; TYPE: DNA ; ORGANISM: Homo sapiens ; FEATURE: ; NAME/KEY: 5'UTR ; LOCATION: 1..83 ; FEATURE: ; NAME/KEY: CDS ; LOCATION: 84..317 ; FEATURE: ; NAME/KEY: 3'UTR ; LOCATION: 318..438 ; FEATURE: ; NAME/KEY: polyA signal ; LOCATION: 397..402 ; FEATURE: ; NAME/KEY: polyA site ; LOCATION: 423..438 ; US-10-154-678-5					
	Query Match	11.7%; Score 70.4;	DB 15;	Length 438;	
	Best Local Similarity	69.9%;	Pred. No. 3.4e-06;	Mismatches 41;	Indels 0;
	Matches	95;	Conservative 0;	Gaps 0;	
QY	120 GAATTTCATCTTTGACTGGACCTCCACCACCAATAATGAAGATCTTTTATCTTTGTCTTCAT	179			
Dd	50 GACTCCTCTTGAGTAAGAAGACTCAGCCAACATATGAAGTTTTTCTTTGCTTTTAGT	109			
QY	180 TATGGCTCTCATCCTAGGCATGATTAGAGCTGATTCATCTCGAAGAAACGTCACAGAA	239			
Dd	110 CTTCGCTCTCATGATTTCCATGATTAGCGCTGATTCATCAATGAAGAAGACATCATGGGTA	169			
QY	240 ACGGAAAAAACATCAT	255			
Dd	170 TAGAAGAAAAATTCAT	185			
 Search completed: April 20, 2004, 04:32:30 Job time : 366 secs					